DOCUMENT RESUME

ED 100 652

88

SE 018 343

TITLE

Kindergarten, Environmental Education Guide.

INSTITUTION Project I-C-E, Green Bay, Wis.

SPONS AGENCY Bu

Bureau of Elementary and Secondary Education

(DHEW/OE), Washington, D.C.; Wisconsin State Dept. of

Education, Madison.

PUB DATE

[74] 87p.

EDRS PRICE

MF-\$0.75 HC-\$4.20 PLUS POSTAGE

DESCRIPTORS

*Conservation Education; Early Chilchood Education; *Environmental Education; Instructional Materials; Interdisciplinary Approach; *Kindergarten; Learning Activities; *Natural Resources; Outdoor Education;

Science Education; *Teaching Guides

IDENTIFIERS

Elementary Secondary Education Act Title III:

*Project I C E; Title III

ABSTRACT

This kindergarten level environmental education guide is one of a series of guides, K-12, which were developed by teachers to help introduce environmental education into the total curriculum. The guiden are supplementary in design; it is the teacher's decision when the concepts, objectives, activities, an resources may best be integrated into the existing classroom curriculum. This guide contains a series of 12 episodes (minilesson plans), each having a number of suggested in- and out-of-class learning activities. The opisodes are built around 12 major environmental concepts that form a framework for each grade or subject area, as well as for the entire K-12 program. Although the same concepts are used throughout the K-12 program, emphasis is placed on different aspects of each concept at different grade ! wels. The kindergarten guide focuses on aspects such as weather, temperature, population, water pollution, transportation, the seasons, litter, and a conservation of resources. Each of the 12 concepts is covered in one of the 12 episodes contained in the guide. Further, each episode offers subject area integration, subject area activities, interdisciplinary activities, cognitive and affective behavioral objectives, and suggested references and resource materials useful to teachers and students. (Author/TK)



ENTURINATION TO THE RESIDENCE OF THE PARTY O FNYIRONHENT TOWN TANGET OF THE STATE OF THE

BEST | OPY AMILABLE

NEW SEWEN SERVINE

EDWGATIO

ERIC
Full Text Provided by ERIC

PROJECT I - C - E
[Instruction-Curriculum-Environment]
1927 Main Street
1927 Main Street
Green Bay, Wisconsin 54301
(414) 468-7464

PROJECT STAFF

Robert Warpinski - Director

Robert Kellner Terrence Hess - Assistant Directors

George Howlett, Jr. - E. E. Specialist

Nancy Timm Lynn Kuehn - Secretaries

ALL RIGHTS RESERVED
These materials were produced pursuant
to a grant under Title III, E.S.E.A.
The Wisconsin Department of Public Instruction
Project No. 59-70-0135-4

Serving All Schools in Cooperative Educational Service Agencies 3-8-9 Wisconsin Area "B" Regional Project

Ludwig Petersen Coordinator, C.E.S.A. #3

Kenneth Poppy Coordinator, C.E.S.A. #8

John F. David Coordinator, C.E.S.A. #9 Project Administrator

In 1969, the First Environmental Quality Education Act was proposed in the United States Congress. At the time of the introduction of that legislation, I stated:

"There is a dire need to improve the understanding by Americans of the ominous deterioration of the Nation's environment and the increasing threat of irreversible ecological catastrophe. We must all become stewards for the preservation of life on our resourcedeficient planet."

Environmental Education Act was passed by the Congress, much has happened in the United States to reinforce the great need for effective environmental education for the Nation's young people. The intensive concern over adecontinuing degradation of our air and water, and the discussion over the economic costs of the war against pollution have all brought the question of the environmental quality of this nation to a concern not merely of aesthetics but of the survival of the

The intense interest by the public in the quality of our lives

as affected by the environment clearly indicates that we cannot just use incentives and prescriptions to industry and other sources of pollution. That is necessary, but not sufficient. The race between education and catastrophe can be won by education if we marshall our resources in a systematic manner and squarely confront the long-term approach to saving our environment through the process of education.

As the incessant conqueror of nature, we must reexamine our place and role. Our world is no longer an endless frontier. We constantly are feeling the backlash from many of our ill-conceived efforts to achieve progress.

Rachel Carson's theme of "reverence for life" is becoming less mystical and of more substance as our eyes are opened to much of the havoc we have wrought under the guise of progress. A strong commitment to an allembracing program of environmental education will help us to find that new working definition of progress that is a pre-requisite to the continued presence of life on this planet.

Senator Gaylord Nelson

ACKNOWL EDGEMENT

Project I-C-E Environmental Education K-12 series: The interest and dedicated effort of the following teachers from Wisconsin Area "B" has led to the development of the

Robert Haen, Luxemburg-Casco

Ken Couillard, Hortonville Ronald Conradt, Shiocton Willard Collins, Crivitz Bill Cole, Gillett Merle Colburn, Algoma Kathryn Colburn, Algoma Bob Church, Little Chute Clifford Christensen, Winneconne Gailen Braun, Lena William Bohne, Kimberly Barbara Jean Bobrowitz, Green Bay Merlyn Blonde, Shawano Carmella Blecha, Green Bay Laura Berken, Oconto Falls Peter Biolo, W. DePere Lousene Benter, Gillett Marie Below, Clintenville David Bell, Neenah William Behring, Lourdes, Oshkosh Bonnie Beamer, Coleman Anthony Balistreri, Howard-Suamico William Baggs, Shiocten Angela Anthony, Gibraltar Walter Anderson, Wausaukee Mary Anders, Winneconne Joan Alioto, Denmark D. C. Aderhold, Bonduel Lee Clasen, Luxemburg-Casco Joan Charnetski, Sevastopol Lillian Berges, Seymour Robert Becker, Fox Valley Luth., Appl. David Bartz, Sturgeon Bay Lowell Baitz, Weyauwega Dr. Harold Baeten, St. Norbert, DePere Peggy Anderson, Green Bay John Anderson, Peshtigo James Anderson, Green Bay Eugene Anderson, Peshtigo

Robert J. Haglund, Green Bay Sr. Barbara Haase, St. Bernard, G.B. Karen Grunwald, St. James Luth., Shawano Rev. Gordon Gilsdorf, Sacred Heart, Oneida Rev. Bruno Frigo, Abbot Pennings, DePere Keith Fawcett, W. DePere Janet Elinger, Ashwaubenon Dennis Dobrzenski, White Lake Roberta Dix, St. Joe's Acad., Robert H. Dickinson, Oconto Nicholas Dal Santo, Fembine Sara Curtis, Green Bay John Cowling, Niagara Janelle Hagerty, Resurrection, G.B. Michael Haasch, Pulaski Charles Gostas, Freedom Lillian Goddard, Ccleman Mike Gleffe, St. Matthews, Green Bay Armin Gerhardt, Appleton Dona Geeding, Menasha Raymond Gantenbein, Green Bay Billie Feichtinger, Green Bay Gery Farrell, Menasha Mike Ercegovac, Winneconne Phyllis Ellefson, Wash. Island Darwin Eastman, Appleton R. A. Dirks, Gillett John DeWan, Green Bay Judy DeGrave, W. DePere James Curran, Green Bay Jack Giachino, Seymour Leroy Gerl, Oconto Ann Fuhrmann, Marinette Raymond Emerich, Hortonville Linda Eiting, Appleton Ellen DePuydt, Gillett Duane DeLorme, Green Bay Carol DeGroot, Ashwaubenon

Ester Kaatz, Wausaukee Sr. Claudette Jeanquart, St. Charles, Barbara Huth, Menasha Nannette Hoppe, Howard-Suamico Beth Hawkins, Xavier, Appleton Bill Harper, Lena George Kreiling, Marinette Mike Kersten, Suring Mary Chriss, Hortonville Ken Keliher, Appleton Mel Kasen, Gibraltar Kris Karpinen, W. DePere Paul Kane, Ashwaubenon Sr. Lois Jonet, Holy Angels, Appleton Kathleen Jonen, Kaukauna DeAnna Johnson, Denmark Darrell Johnson, Hortonville Sue Husting, Green Bay James Huss, Freedom Gene Hurrish, Green Bay Catherine Huppert, DePere Joe Hucek, Pulaski Wendell Hillskotter, Weyauwega Robert Herz, St. James Luth., Shawano Jerome Hennes, Little Chute Gary Heil, Denmark Terry Heckel, Marinette Mike Hawkins, Xavier, Appleton Emmajean Harmann, Sevastopol Herbert Hardt, Gibraltar Russ Hanseter, Seymour Raymond Hammond, Hortonville Lee Hallberg, Appleton Donald Hale, Winneconne Ken Kappell, St. Alousius, Kaukauna John Hussey, Green Bay

Robert Meyer, Neenah Priscilia Mereness, Wrightstown Rick Menard, Little Chute Kathleen McMahon, Green Bay Judy McGown, Green Bay Margaret McMahon, Little Chute Margaret McCambridge, White Lake Mary Mathis, Denmark Sr. Anna Maar, St. Philips, G. B. Joyce Mateju, Algoma Doris Malcheski, Howard-Suamico James Maki, Sturgeon Bay Roy Lukes, Gibraltar Judy Luedtke, St. Rose, Clintonville Jean Lucier, Ashwaubenon Ellen Lotz, W. DePere Dennis Lord, Little Wolf John Little, Winneconne Harold Lindhorst, St. Martin Luth., Clint. Steven P. Lapacz, Resurrection, G.B Sr. Mary Alyce Lach, Cathedral, G.B. Donald Marsh, Bonduel Edward Linn, Appleton Don Leibelt, Green Bay Robert Lee, Neenah Kathleen LcBreck, Oconto Rosemarie Lauer, Hortonville Mae Rose La?cinte, St. John High, L. Chute Thomas LaFountain, Appleton Ervin Kunesh, Marinette Jim Krueger, Winneconne Fritz Krueger, Oshkosh Fred Krueger, Oshkosh Lynn Koehn, Pulaski Frank Koehn, Resurrection, G.B. Everett Klinzing, New London Bernadyne King, Neenah James Krenek, Coleman Phillip Lewicki, Gillett Jack Koivisto, Green Bay Douglas Koch, Cath. Cent., Marinette

Edwin Schaefer, Kaukauna William Schaff, St. Joseph, Appleton Virginia Pomusl, White Lake Willard Poupore, Little Chute Elmer Schabo, Niagara Mary Margaret Sauer, Menasha Roger Roznowski, Southern Door Jack Rosenthal, Lourdes, Oshkosh Ben Roloff, Howard-Suamico Gladys Roland, Little Wolf Gordon Rohloff, Oshkosh William Roberts, Sturgeon Bay Jack Rickaby, Hortonville Mark Reddel, St. Martin Luth., Clint. Rosemarie Rafath, Clintonville Christine Proctor, Wausaukee Marie Prochaska, Lena Gene Ploetz, Kaukauna Connie Petersen, St. Martin Luth., Clint. Sr. Dorothy Marie Tappa, Xavier, Appl. AnnaMay Peters, Florence Arthur Paulson, Oconto Falls Carl Paquet, Denmark Ed Patschke, Menasha Kathryn Rowe, Appleton Paul Plantico, Green Bay George Pederson, Southern Door Gloria Morgan, Linsmeier, G.B. Wendell Mitchell, Green Bay David Paulus, Neenah Jean Marie O'Malley, Green Bay Neil Olsen, Pulaski Jim Nuthals, Lourdes, Oshkosh Arnold Neuzil, Shiocton Sharon Moore, Pulaski David Miskulin, Goodman Richard Minten, W. DePere Terry Otto, St. John Luth., Suring Don Olsen, Shawano Mildred O'Connell, Green Bay Dorothy O'Brien, Wausaukee Lyle Nahley, Green Bay

Peggy Wolfgram, Pulaski Warren Wolf, Kimberly James Wiza, DePere Ruth Windmuller, Green Bay Dallas Werner, Kaukauna Susan Weller, Green Bay Cathy Warnack, White Lake Mary Wadzinski, Howard-Suamico John Torgerson, Kewaunee Nancy Tebo, Neenah Ginger Stuvetraa, Oshkosh Ralph Wohlt, New London Lila Wertsch, St. Margaret Mary, Neenah Ruth Ward, Crivitz Carol Trimberger, Kewaunee Clarence Trentlage, Freedom Richard Switzer, Little Chute Judy Sweedy, Denmark Wayne Splitgerber, Green Bay Tom Weyers, Cathedral, Green Bay Marion Wagner, Gillett Tim Van Susteren, Holy Name, Appleton Jack Twet, Freedom Jackie Thiry, Denmark Bill Stillion, Shawano Doris Stehr, Mt. Calvary Luth., Kimberly Beverly Splitgerber, Green Bay Bruce Sonnenberg, Neenah David Soltesz, Crivitz Lee Smoll, Little Chute Mary Smith, Green Bay Peter Skroch, Oconto Falls Janet Serrahn, Sevastopol Allan Schuh, Pulaski Ron Schreier, Omro Larry Schneider, DePere Greg Schmitt, Cathedral, G.B. Arthur Schelk, Süring Calvin Siegrist, Howard-Suamico Carolyn Stoehr, New London

KINDERGARTEN PREFACE

introduce Environmental Education more easily into the curriculum. This booklet was revised to help kindergarten teachers

ready being used. but are designed to fit in as a supplement or addition to units al-These units are not extra work to be taught separately,

Ecology is in - Get with it



DIRECTIONS FOR USING THIS GUIDE

This guide contains a series of episodes (mini-lesson plans), each containing a number of suggested in and out of class learning activities. The episodes are built around 12 major environmental concepts that form a framework for each grade or subject area, as well as for the entire K-12 program. Further, each episode offers subject area integration, multi-cable, both cognitive and affective behavioral objectives and suggested reference and resource materials useful to the teacher and studants.

- in design--it is not a complete course of study, nor is its arrangement sequential. You can teach environmentally within the context of your course of study or units by integrating the many ideas and activities suggested.
- 2. The suggested learning activities are departures from regular text or curriculum programs, while providing for skill development.

- . You decide when any concepts, objectives, activities and resources can conveniently be included in your unit.
- 4. All episodes can be adapted, modified, or expanded thereby providing great flexibility for any teaching situation.
- area has its own topic or unit emphasis, inter-grade coordination or subject area articulation to avoid duplication and overlap is highly recommended for any school or district seeking effective implementation.

This total K-12 environmental education series is the product of 235 classroom teachers from Northeastern Wisconsin. They created, used, revised and edited these guides over a period of four years. To this first step in the 1,000 mile journey of human survival, we invite you to take the second step--by using this guide and by adding your own inspirations along the way.

TABLE OF CONTENTS

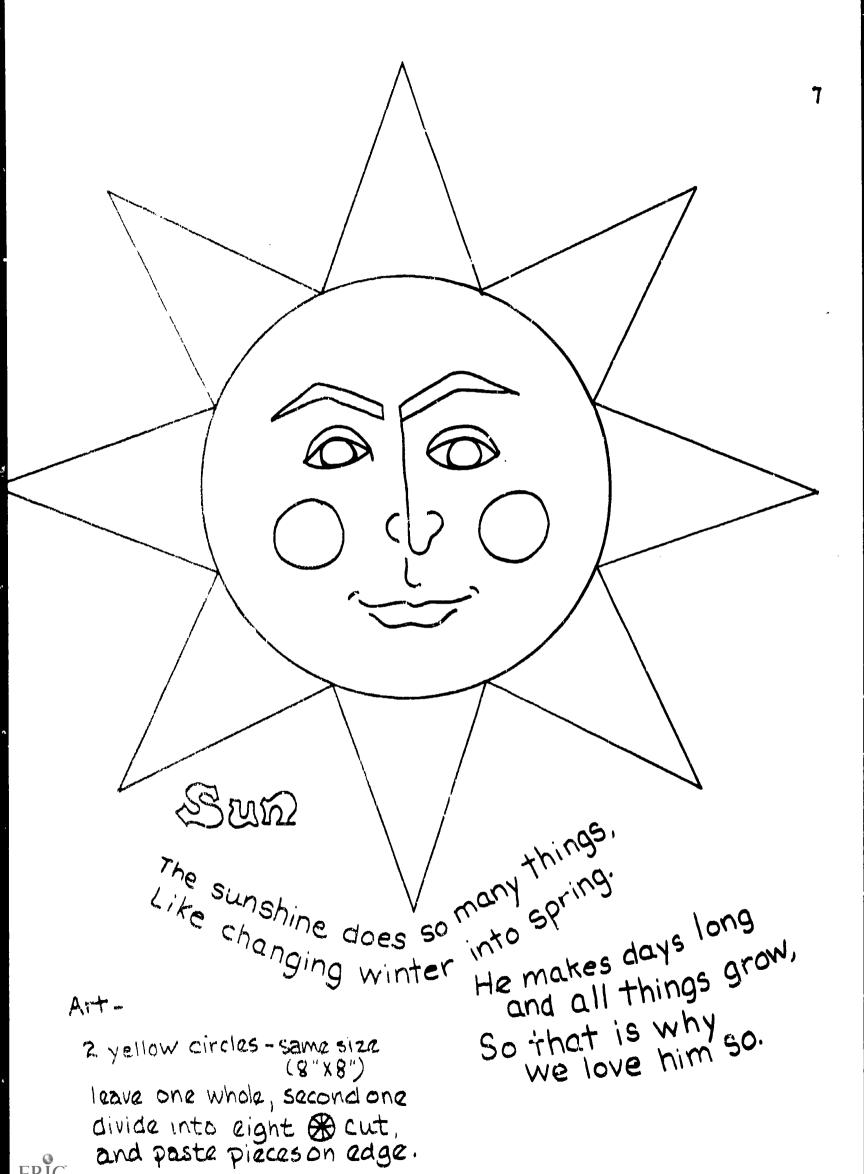
12	11	10	9 or 11	9	œ	7	6	ڻ.	4	ω	29	- !	Concept
Respecting the Rights of Others	Conservation of Resources Respect for Property Jump-Rope Ditties	Destroying Nature	Litter	Seasons	Using Our Senses Recreational Areas	Transportation	Mud Pies Fire Prevention Jungles and Deserts	Air Pollution	Water Pollution	Population	Living and Non-living Things Making a Terrarium	Weather and Temperature	Topic
101, 103	93 95 97	91	71	67	55 63	51	45 47 49	41	31, 35	23	17 21	11	Page No.

PROJECT I-C-E TWELVE MAJOR ENVIRONMENTAL CONCEPTS

- 1. The sun is the basic source of energy on earth. Transformation of sun energy to other energy forms (often begun by plant photosynthesis) provides food, fuel and power for life systems and machines.
- 2. All living organisms interact among themselves and their environment, forming an intricate unit called an ecosystem.
- 3. Environmental factors are limiting on the numbers of organisms living within their influence. Thus, each ecosystem has a carrying capacity.
- 4. An adequate supply of clean water is essential to life.
- 5. An adequate supply of clean air is essential for life.
- 6. The distribution of natural resources and the interaction of physical environmental factors greatly affect the quality of life.

- transportation, economic conditions, population growth and increased leisure time influence changes in land use and population densities.
- 8. Cultural, economic, social, and political factors determine man's values and attitudes toward his environment.
- 9. Man has the ability to manage, manipulate and change his environment.
- 10. Short-term economic gains may produce long-term environmental losses.
- 11. Individual acts, duplicated
 or compounded, produce sig nificant environmental
 alterations over time.
- 12. Each person must exercise stewardship of the earth for the benefit of mankind.

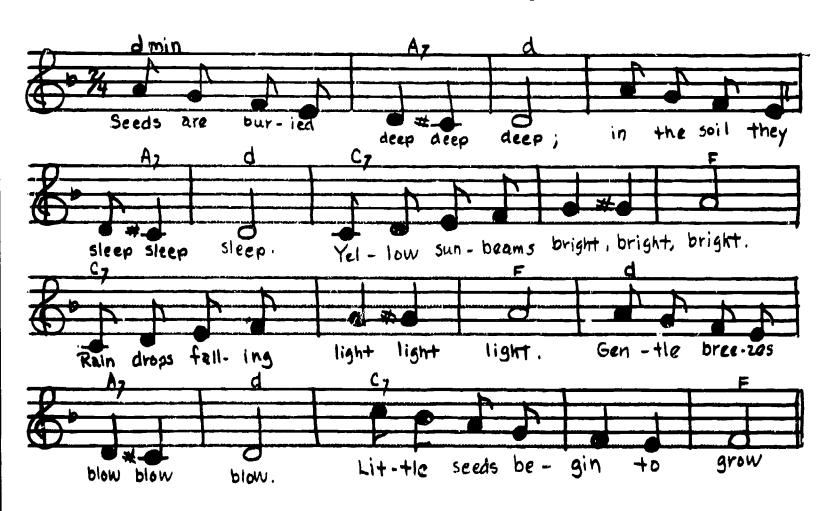
A "Concept Rationale" booklet and a slide/tape program "Man Needs His Environment" are available from the I-C-E RMC to more fully explain these concepts.



ERIC Full Text Provided by ERIC

Liffle Decels

Taken from
Singing Fun by Lucille Wood
and Louise Scott
Webster Pub. Co., St. Louis





				·				Ε.	S.	E.	Α	۱. ٦	Γitle	<u>.</u>	11		PR	10.	JEC	СТ	1-	-C	E	<u> </u>	59	7	0(013	5-4	1	_			
Painting, Drawing	Art Skills: Cutting, Pasting,	changes.	and observ	to plants through expen	importa	Skills Used:							0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	vellow color crinkled leaves.	cause of a plan	that Cack of Sunin				ing season.	plants that are used in identity-	cribe characteris	t the four seasons of the	smoothness of leave	b. straightness		ts.			BEHAVIORAL CBJECTIVES		ORIENTATION How important is the	CONCEPT NO. 1 - Energy	
for leaves. (Continued)	spring. Put in water. Watch	ranch in ear	d Vege	n brard of F		so child see	D. Plant seed in glass jar. Un		3.		o -	from from	Seed Seeds Tane nicture		Seeds and	ll turm towards t	it and observ	B. Place a plant in window. Turn	cold	vinter	rainy - not to be c	ro [ɔ	play outside	เสทร		Enumera : Jays of similar	ather for	ather calendar: Keep	In-Class:	STUDENT-CENTERED LEA		sun's ene <i>rgy?</i> TOPIC/UNIT	SUBJECT Sc	
	6/11	iy in a biowing wind.	oil mo	up, finally he is straigh	extended, then right	seeds begi	One public schosen to water seeds. One public the sun.	ds.	kneeling with head covered with		D. Flowers - Creative Dramatics.	perfume	down.	This	is the way	seed	the way we water the	3. This is the way we plant the seed	garden	is the way we rake the	This is the way	planting and caring for fl	C. Song to "Mulberry Bush" - Dramatize	<pre>plants and animal:</pre>	feels	R On a cumpy day discuss how	compare temperature changes and	rent days	Outside or Community:	LEARNING ACTIVITIES		Weather and Temperature	Science	

SUGGESTED RESOURCES

Publications

Books

Science for Work and Play, Herman & Nina Schneider

Concepts in Science, Brandwein, Cooper, Blackwood, & Hone

The Sun, Our Nearest Star, by Franklyn M. Branley, Crowell Co., 1961

Compton's Precyclopedia, F. E. Compton Co., Chicago

The Sun and the Wind, Fable (Continued)

Audio-Visual:

Film - Food from the Sun, color, 10 min. (EBF) BAVI 6/42 \$4.75

min., Coronet, BAVI 0515 \$4.00

Filmstrips

Sun Up (Weston Woods Story Films)

The Sun's Family

Susan and Peter Dress to Match the

Weather

Air Around Us 035-7 SVE \$5.50 (Continued next page)

Community:

Have a farmer tell children how (a) he gets his soil ready to plant

h1s crops. h) what is needed to

(b) what is needed to raise good crops. The farmer could come to school, or

the class could visit the farm

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

- Bulletin board display. Sun in center. Children place picture objects around that depend on the sun. Label.
- watch all year. Draw and color the tree. Trees. Observe tree when it is still summer. Choose one tree to
- Observe same tree in the fall. Make a fall tree with colored leaves
- J. Observe same tree in the winter. Paint a winter tree.
- K. Observe same tree in the spring. Make a spring tree
- L. Summary (All seasons)
- a. Bring out samples of the drawings of the trees in season. Discuss and compare the characteristics.
- b. Do a flashlight experiment to show the sun on the trees. Hold the flashlight waist high and shine directly on chalk-board. This shows the direct rays of the sun concentrated on one area. Then slant the flashlight showing the same amount of light spread over a larger area. - Talk about the heat from the sun making the trees grow faster. When the sun is directly overhead it has more heat.

PUBLICATIONS (Continued)

The Sun Book

AUDIO-VISUAL (Continued)

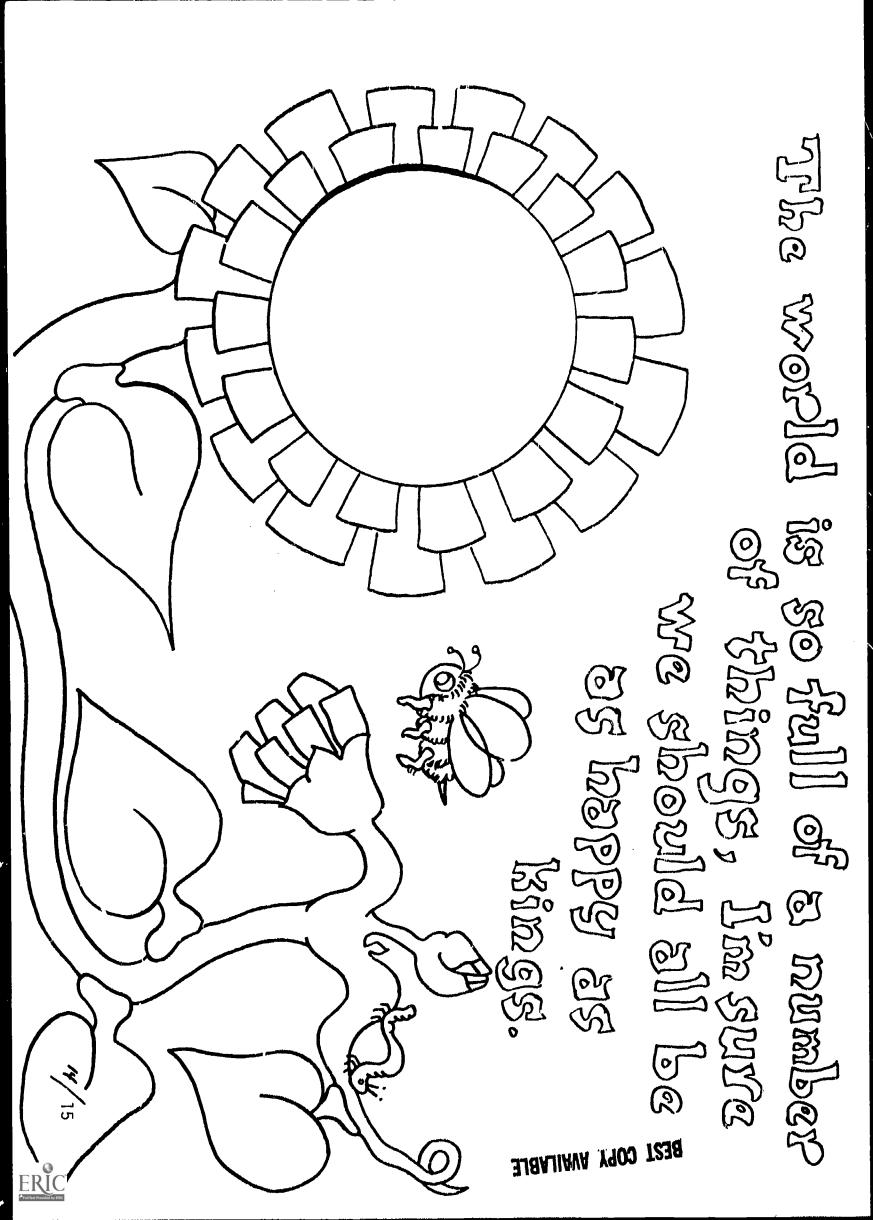
True Book Natural Science Trees 435 SV

Picture Study Prints SVE Tr the Spring - SP137 \$8.00 in the Summer - SP138 \$8.00 In the Fall - SP139 \$8.00 In the Winter - SP140 \$8.00

Filmstrips SVE
True Book of Physical Science

(Continued on next page)

Community:	Audio-Visual:		Publications:	SUGGESTED RESOURCES
$\overline{\omega}$		Seasons 435-12 \$5.50 Learning About the Seasons F 445 \$22.50 Set The Seasons 835 \$20.00 Set Season's Adventures 444 \$20.00 Set Basic Primary Science - Group 1 "Finding Out About the Sky" 424-6 \$5.50 Science for Beginners "The Sky Above Our Earth" 425-3 \$5.50	AUDIO VISUAL (Continued)	CONTINUED OR ADDED LEARNING ACTIVITIES



Environmental:			Integrated with:	1:
CONCEPT NO	2 - Living Organism - Ecosystem	- Ecosystem	SUBJECT	Science
ORIENTATION	What is the Difference Between Living	nce Between Living	TOPIC/UNIT	/UNIT Living and Non-living Things.
	and Non-living Things?	gs?		
BEHAVIORAL OBJECTIVES	BJECTIVES	STUDENT-CEN	T-CENTERED	TERED LEARNING ACTIVITIES

	E. S. E. A. Title III — PR	OJECT I-C-E 59-70-0135-4	1
Skills Used: Observation Classification	Affective: The child will know that non-living things need living things to care for them.	Cognitive: Child will identify living and non-living things.	and Non-living Things? BEHAVIORAL OBJECTIVES
	and non-living things do not grow, read Seeds and More Seeds to the class. Discuss. E. Poem: Taking a walk was so much fun We didn't hurry, we didn't run. We watched for birds and watched for beas, we looked at all the pretty budding trees.		IGS? STUDENT-CENTERED LEARNING
16/17	other n	A. Take the class on a "living things walk". Ask them to point out things that are alive. Talk about things in nature that are not alive. Are rocks living things? Are lakes living things? Are mountains living things? B. Find a rock while walking and turn it over very carefully. 1. What lives under this rock? Look very carefully to make sure you see everything.	VING ACTIVITIES



SUGGESTED RESOURCES

- <u>Publications:</u>
 Seeds and More Seeds, Millicent E. Selsam - Harper and Row
- 5 Soon After September: The Story of Living Things McGraw-Hill Co., N.Y.

Study Prints Kit 37 ICE-RMC The Variety of Living Things

ω Ecolab - C 1971 Learning Concepts Benefic Press

Audio-Visual:

Care of Pets (2nd Ed.) Color - 13 min. (EBF) BAVI 0344 \$5.50

Film 330 A Slice of Bread ICE RMC 16 min.

Filmstrip - How Animals are Alike FS St 5 ICE RMC

Filmstrip - What Animals Need FS St 5 ICE RMC Ecology (10 slides, script)
FS St 14
Community:

Nature Trail - Identify living and non-living things seen on the trip.

Walk around school yard.

CONTINUED OR ADDED LEARNING ACTIVITIES

AUDIO-VISUAL (Continued)

(Grade level above kindergarten, but with teacher adaption could be used. Slides are good.)



Find the living things





SUBJECT

CONCEPT NO. 2 - Ecosystem

TOPIC/UNIT Making a terrarium

ORIENTATION What do we need to make a terrarium?

	E. S. E. A. Title III - PRO	OJECT I-C-E 59-70-0135-4	
Skills Used: Observation - growth of plants, "rain" in terrarium. Increased vocabulary.	Affective: Demonstrate awareness of the necessity for a correct balance of material used in order to produce an effective terrarium by suggesting "an incorrect balance" as being the cause of dying plants in the terrarium.	Cognitive: Describe a terrarium as a miniature world in a container.	- 1
humus. d. Small plant and tree seedlings - be sure to finclude soil to protect froots, masses and lichens. (Keep these in plastic bags until ready for use.) Can count	ink we nts and anima find tl find fie the bo sand	um tank or a wider can be place and Tell" area. begin to ask "we can we do with her can suggest: wilding a little container. of world? Suggest plant be plants are easi	STUDENT-CENTERED LEAF
20/ 21		Outside or Community: A. Have someone from Science Dept. come and talk with children about plants and animals. B. Visit a greenhouse and compare it with our terrarium. 1. Greenhouse is almost completely glass. Why? C. Go on a field trip to Outdoor Educational Center if one is available and examine soil, look for moss, lichens, ferns, etc. animal homes, water insects.	LEARNING ACTIVITIES

(continued)

SUGGESTED RESOURCES

Publications:

Magazines: Ranger Rick's Magazine, National Wildlife

Childcraft Books:

House, Inc. Klein, Leonore, What Is An Inch, Harvey

Environmental Education Exercises
Gr ICE-RMC 130

Honor, Inc. Inch by Inch, Astor-

Prok, Cal Audio-Visual: Teacher Resource - Terrariums and M<u>iniature Gardens \$1.95, Lane Boo</u>ks, Menlo

Meadow" Coronet Instructional Films Filmstrips - "We Explore the Field and

Study Prints - Kinds of Animals Animal Babies ICE RMC Kit 19

16 min., color. Shows the interde-pendence of all living things. Film 33D - A Slice of Bread ICE-RMC

Community:

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

- number of plants gathered. A small saucer of water.
- An interesting rock or two.
- g. A pane of glass to cover terrarium after it has been assembled 'hat shall we put in the container first?
- Measure one or two inches of gravel or sand excess water will be stored here.
- Again measureamount of charcoal. This keeps soil sweet. Is it like charcoal we use to barbecue? It is full of holes.
- d. Soil from woods - again measure.
 Plants - do not crowd - measure should plants and distance betweem as they are placed in terrarium. Put popsicle sticks beside plants to measure growth.
- е. Put a small dish to hold water in soil. Put water in dish - measure it - sprinkle plants with water. Add rocks.
- <u>.</u> Cover and place away from direct sunlight and observe growth
- מי Go outside. Bug's eye view.

Everyone stretches out, eyes on grass level, to see what the world is like to a bug. The blade of grass is like a tree! The pebble is mountain size to a bug. Big things like trees just don't show. People are just feet.

By: V. Musselman Learning about Nature Through Games Taken from:



Environmental:

Integrated with:

crowd is created.

(cont'd.

SUGGESTED RESOURCES CONTINUED OR ADDED LEARNING ACTIVITIES

Publications

Rabbit Hill by Robert Lawson

Audio-Visual:

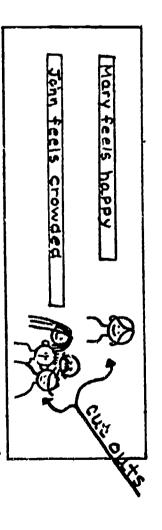
Film - Rabbit Hill, color, 2 reels 53 min., Brown County Library

Boomsville - ICE - Film 400 - Shows population growth RMC

Community:

CLASSROOM (Continued)

E. Crayon drawing of a spectator sport crowd, or make a bulletin board showing a crowd by having each child draw and cut a head and neck

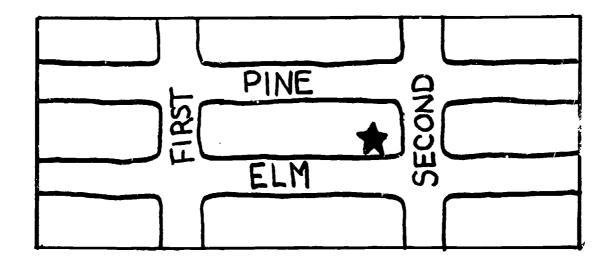


- Τ. Ask each child to tell how he feels in a crowd. Write it on a sentence strip and put on bulletin board showing a crowd.
- G. You will need two large tables or other space i.e. floor. Discuss space and what can happen in open spaces.
- 1. Ask the students to bring small cars or dolls or make paper ones. Mark off the table spaces into areas with masking tape. One car or one doll will go into each.
- Have students place car into each space one by one. As cars are put in, discuss what happens to the space and the kinds of things that can be done in the space.
- Discuss how they see this process happening in their neighborhood.



You are going to draw a picture, or make a map, of your neighborhood. You will have to "follow orders" carefully. Be sure not to leave anything out.

Look at this map showing a school and the streets around it. It could be a map of anyone's neighborhood.



- Next, go outside and look around your school.

 a) Notice the names of the streets. 2.

 - b) Look at the other buildings.
- How many buildings on the list below do you see?

CHECK HERE	BUILDING	SYMBOL
*************	School	*
	Apartment House	*
	Office Building	7)
	Store	් C
	Garage	
	House	
	Playground Building .	8
	Factory	T
	Service Station	3

Add anything that is not on the list.



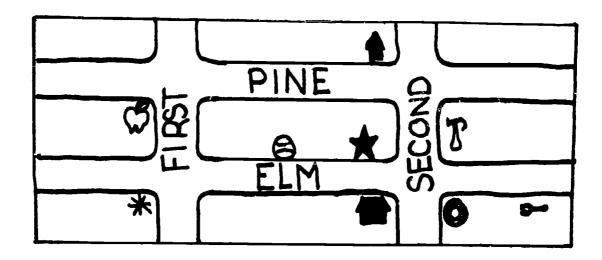
When you are back in your classroom, draw your own map of the land around your school.

a) Write in the street names where they belong.

b) Put in the symbol for your school.

c) Put in the other symbols.

Your map might look something like this:

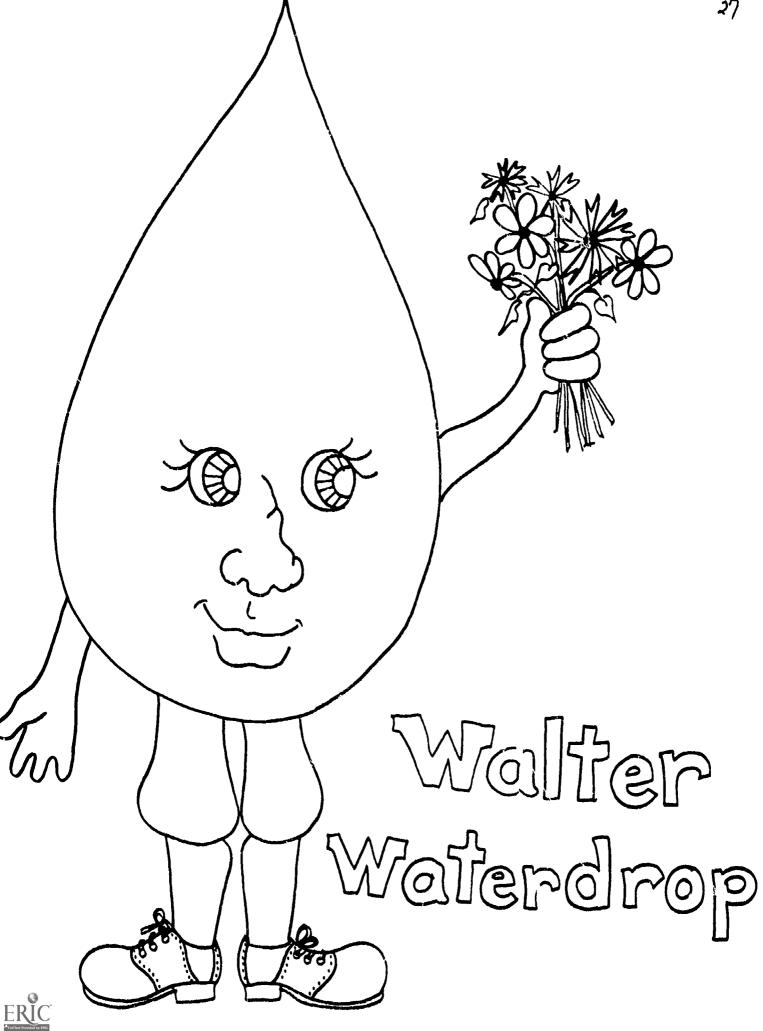


Taken from:

A Place to Live Published by: National Audubon Society



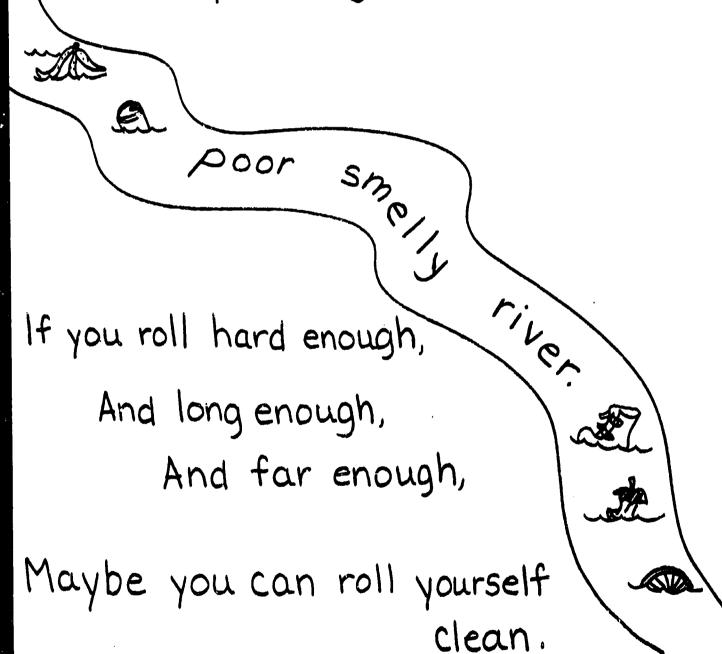
BEST COPY AVAILABLE



27

Roll, River, Roll

Keep rolling along,





	Environmental:	Integrated with:	
_	CONCEPT NO. 4 - Pure Water	SUBJECT Soc	Social Studies, Phy. Ed.
- i	ORIENTATION How do we use water?	TOPIC/UNIT Water	er Pollution
	BEHAVIORAL OBJECTIVES	STUDENT-CENTERED LEAF	LEARNING ACTIVITIES
5–4			Outside or Community:
0139	Point out bodies of water on globes and maps using the map symbols.	I. Social Studies Ask - Does the earth have	Write to: Environmental Protection Agency
		ter on it?	ص. ب
	Tell ways that water is used by:	Show maps. Teach the child- ren how to recognize bodies pof water.	Chicago, Illinois bubbb Ask for free booklet:
1-0	b) companies	 Talk about the fact that sometimes more rain falls inl 	Needed: Clean Water Problems of Pollution
OJEC.I	c) tarmers	ain places than in	be งก็อไ
- PR	Affective:	many places in the world where water is found.	Write to:
e III	Demonstrate awareness of water usage by identifying new ways	how pictur isn't wat	
Tit	c., and bring this infor	cuiul as)	Kansas City, Missouri
E. A.	tion to class.	B. Make bulletin board of above! pictures.	1-3
S. E		C. Children will talk about:	(You may be able to get enough for the
E.		_ ന	class)
	Skills Used:	water.	Write to: IEE Offices
	nd globes.	<pre>D. Make a class list of things that would be impossible if there was no water. </pre>	Nova High School, 3600 S. W. College Avenue, Fort Lauderdale, Florida 33314
-	if there was no water	E. A clever poem Little Johnny Raindrop is included in the	Little Johnny Raindrop - a poem of the water cycle.
		(Continued)	(continued)

SUGGESTED RESOURCES

Publications

Brok of Activities for the Teacher Running Water ICE-RMC 120 Ma 5

water for primary youngsters. ICE-RMC A Teacher's Guide to the study of

Pantheon Fish is Fish, Leo Lionni

Audio-Visual:
Pictures of where water is found and where water is not found.

Filmstrip - True Book Physical Science Deserts 435-8 \$5.50 SVE Oceans 435-10 \$5.50 SVE

Study Prints - Kit 38 Desert Pictures

and Dirty #3174 BAVI \$2.25 Film - Your Friend the Water - Clean

Community:

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

teacher's guide for Water available from ICE - See suggested resources.

COMMUNITY (Continued)

The ABC's of Water - a booklet with all the letters of the alphabet asking if there is water in it.

II. Physical Education

Game: It's Raining
1. Form double circle. Players facing each other. Teacher calls "Go out to Play". Flayers on outside skip or run around circle. When teacher calls "It's Raining", all players run back to their partner, join hands and sit down. Last couple to sit down is out of the game. Change position of skippers with partners after short intervals.

Audio-Visual (Continued)

Film - Water, Water Everywhere BAVI \$2.25

Films - Free 320 The Stream, order from ICE-RMC It's Your Decision - Clean Water, Order from: Modern Talking Picture Service, Inc. 160 East Grand Avenue, Chicago, Illinois 60611

BEST COPY AVAILABLE

Who Likes Baim?



"I" said the duck, "I call it fun. For I have my little red rubbers on. They make a cunning, three-toed track, In the soft cool mud; quack, quack."

"I" cried the dandelion, "I" My roots are thirsty, my buds are dry." And she lifted her little yellow head Out of her green and grassy bed.

"I hope 'twill pour; I hope 'twill pour," Croaked the tree frog from his gray bark door. For with a broad leaf for a roof, I'm always safely waterproof.

Sang the brook, "I welcome every drcp, Come down dear rain drops, never stop. Until a broad river you make of me, And then I will carry you out to the sea."



Clara Doty Bates

BEHAVIORAL OBJECTIVES	STUDENT-CENTERED LEARNING ACTIVITIES	RNING ACTIVITIES
Cognitive:	In-Class:	Outside or Community:
h h	riment with water mixed	A. Tour school building and follow
Detine pollution.	with the following: soil, oil, i	
7 Tell how water becomes polluted.	ds for a while	janitor's room, etc. Pla where water is essential.
	B. Point out bodies of water on	
	globes, and on an assortment	B. Students should observe a
I-C		
	ge mural o	
	ures or drawn pictures on	C. Students should discuss pollution
Affective:	משמש כו אמנמוי	it got there.
	D. What happens to nice clean rain?	,
Demonstrate awareness of political	Refer to poem - Little Johnny	D. Take a trip to a local polluted
by oftering ex		stream. Look for signs of pollu-
te lution he has seen.	nts could	<u></u>
•	color painting of a rainy	Σ
		into streams. Discuss how the
• •	\boldsymbol{c}	streamr became polluted.
E	paint without changing water	
<u> </u>	in which they rinse their	E. Trip to well manag
E .	brush.	
	 Water pollution could be ! 	pondsunshine on clean water,
	_,	
Skills Used:	water of the water color	0
1. To differentiate differences	iner.	litter can
and globes.	E. Introduce word Pollution and	
2. Drawing.	explain. Label	
	water	

(continued)

3.2

Observation.

water.

SUGGESTED RESCURCES

Publications

Books

Not Only for Ducks, The Story of Rain, McGraw-Hill Co., N.Y. Good Rain by Gouday McGilligots Pool, Dr. Suess Scribner's Sons, Inc. Rain, Rain, Rivers by Shulruitz The Magic of Water, New York, Charles Willy, The Story of Water by Jerome Spar he First Book of Water by Joe Noring.

Audio-Visual

ners The Muddy Raindrops 430-6 \$5.50 Filmstrip: Conservation for Begin-

Film 510 Still Waters

Brown County Library. Filmstrip - Water Pollution 614.7,

Pictures from ICE-RMC, Ecology, The Pollution Problem Kit 39 Ecology Kit: Can I Drink the Water? 1971 Urban Systems, Inc.

Community:

(CONTINUED)

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued

- Develop concept:
- Observe and compare cleaners. Insert clean pipe cleaner into glass of water. Insert pipe cleaner into polluted water
- Ò Smell water, then discuss.
- Which kind of water would you like to play or swim in?
- What living things live in water?
- use up air. Polluted water kills plants and animal life. It is not good for people, plants or animals. Can animal life and plants live in this dirty water? Explain that air is needed in water. Grease and trash
- **c** Show pictures of:
- Polluted water
- Clean water
- People fishing in managed farm pond
- Water recreation
- . Ask children to think of reasons why people and animais need clean water. Ways to keep streams, lakes clean:
- Never throw trash on the streets and highways.
- Picnic litter goes in trash cans.
 Remind others not to throw garbage in streams.
- water becomes polluted the dissolved oxygen is 8026 up faster than the plant life in the water can replace it Talk about what happens to the fish in polluted water.



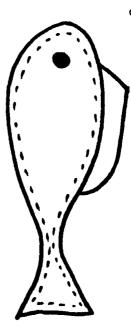
SUGGESTED RESOURCES

Publications:

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (continued)

Make fish. Draw, paint or color, and cut, stuff and staple. Hang on strings.



5. Show film - The Stream - Discuss how water becomes polluted.
Make a list of polluters. (paper, cans, cars, trucks,
planes, factories, homes, garbage, rubbish).

Audio-Visual:

6. View the film Still Waters to see the many animals and plants under water. Discuss importance of water.

Physical Education Game: Uncle Same Game

- Divide the play area by two goals. Children are divided into polluters. One child is selected as Uncle Sam. He stands in the middle. Children call "Uncle Sam, Uncle Sam, may we cross your polluted dam?" Uncle Sam replies, "Yes you may if you are a coke bottle." They get a free run across. Those not mentioned After 3 turns, Uncle Sam chooses someone who is not caught to take his place. (Boys pick girls and reverse.) When new "it" is chosen, remain on the line until Uncle Sam calls "go". They must cross the opposite end without being caught. If caught he goes to sideline. all those caught return to game.
- ₿. After children have played the game, they may be able to choose more names of polluters.





SUGGESTED RESOURCES

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

AUDIO-VISUAL (Continued)

We Explore the Stream - Coronet - Photographs from SCS or local water control company

Water - How Water Helps Us, BAVI - F-181-D 11 min. (IMC)

Adventures of Junior Rain Drop, BAVI, #0022 10 min. color \$2.00

Your Friend the Water-Clean or Dirty, color, 6 min. (EBF) BAVI

Audio-Visual:

Community:

ERIC III Text Provided by ERIC

SUPERSTINK

Big bus at the bus stop.

Ready to go again.

Big noise.

Big cloud of

shudder aaargh $g_{a_{Sp}}$ 941_p retch Stiffe stench cough choke wheeze sniffle strangle votchoo choke snuffle cataarrhh *#0?&%c* poison sneeze ghughughughu



Environmental:

Integrated with:

ω 4

Drawing pictures. Physical exercises

Collecting and organizing

Experiment with things in child's immediate world.

G

Teacher draws (cross-section

odors and hold their noses

the air?

shut for unpleasant odors.

of child in close air-tight appliance. Air inside des-

ignated by circulating ar-

(Continued)

Publications:

Audio-Visual:

Film - 6290 Air Around Us, color, 12 min. John Colburn, BAVI \$4.00 Filmstrips:
Air Around Us
Ocean of Air We Live In

Air Pollution and You Free - order from:

Popular Science Pub. Company

True Book of Your Body and You

Modern Talking Picture Service 160 East Grand Avenue Chicago, Illinois 60611 Film - #0678 Air Pollution BAVI

Community:

Tour factor - smorestacks showing Pollution
Nurse or doctor
Physical Education teacher

CONTINUED OR ADDED LEARNING ACTIVITIES

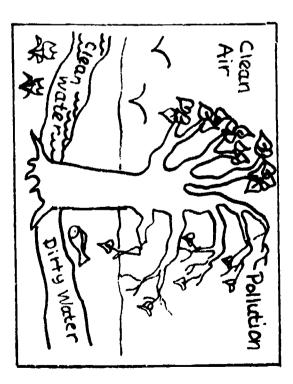
CLASSROOM (Continued)

I. Science

rows-to child. As supply is exhausted in a limited place, one cannot survive; so all air supply has its limits in various amounts in various areas and must be conserved or wisely used.

Problem focused: Lack of oxygen causes sickness or adverse effects.

H. Make a Pollution Bulletin Board.



II. Physical Education

A. Physical exercises: walking, hopping, skipping, running, galloping, tiptoeing, sliding, etc. Faster exercises use more energy and child breathes oftener.



I.	Air A.	Pollution: Stand outside your school. Look all around. Check all of the places you can see that air pollution is coming from: factoriesbusesapartment housesairplanesfires
	В.	Describe the sky. Is it clean?yesno Is it hazy?yesno Is it darker in some parts than others?yesno
	С.	Can you smell the air?yesno
	D.	Do your eyes tear or smart?yesno
		If possible, watch a bus leave a bus stop.
		Can you see the exhaust?yesno
		Can you smell the exhaust?yesno
	Ε.	Try to collect some pollutants.
		1. Wipe a car with a tissue. Paste a piece of the tissue below.
		2. Wipe a window ledge with a tissue. Paste a piece of the tissue below.
		 Go to a tree near a bus stop. Wipe a leaf with a tissue. Paste a piece of tissue below.
		4. Go to a tree as far away as possible from bus stops and heavy traffic. Wipe a leaf with a tissue. Paste a piece of tissue below.
	F.	Sandpaper a small section of the stones on the outside of the school building. Is there a difference in color?yesno
	G.	If there is snow on the ground, what color is it?whitegray



G.	How long ago did the snow fall?a few days ago.	todayyesterday
		Taken from: <u>A Place to Live</u> , published by the National Audubon Society



SUGGESTED RESOURCES CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

The activities for this unit were taken from:

Environmental Education Exercises Bourbon County Schools Environmental Education Dept. Paris, Kentucky 40361

Things Dunn, Phoebe, Tris, Doubleday, 1968

Audio-Visual:

"Soil and Life (The)" United World Films, 221 Park Avenue South, New York

Community:



CONCEPT NO.	CONCEPT NO. 6 - Natural Resources	SUBJECT _	Science - Fhysical Education
ORIENTATION	What Happens to Plants and Animals	TOPIC/UNIT	Fire Prevention
	When There Is a Torest Fire?		

BEHAVIORAL OBJECTIVES	STUDENT-CENTERED LEAF	LEARNING ACTIVITIES
Cognitive:	In-Class:	Outside or Community:
Describe some effects of forest fires.	I. Science A. Discuss air. Let children	A. Visit fire station. On way to and from fire station, children can look for examples of
	ing out ideas. All around us Feel it in the win	children can look for examples of air pollution and report in classroom.
	Can't see it What is air	B. Have a forest ranger speak to the class. Ask:
	breathe it. Demor t a lighted candle indle goes out. Why	유 조
Affective:		 Does anyone do anything about
in his life by taking part in a fire drill and following the	they started? (Air is needed for fires to burn.) Who puts	the
rections give	s out? How do the	- (
	1. Discuss fire safety. Prac-	LOOK In: Cracks notes
	tice fire drills. Children with help of parents, plan escape	grass
	s in homes, repor	walk
	D. Read - <u>Smokey the Bear</u> I Storybook.	in the mirror What would happen to these animals
Skil!s Used:	1. Show pictures of destruction by forest fires.	troyed by fire?
 Observation Discussion 	What happens to the trees and other plants?	
	37 75	
_	to live here now? Why not?	47

E. S. E. A. Title III - PROJECT I-C-E 59-70-0135-4

(continued)

Publications

Smokey the Bear Storybook ICE-RMC

Patterns of Nature, Jeffrey Baker, Nature Series, Phyllis S. Busch, Once There Was a Tree! Discovering World Publishing

Conservation - Contact: State Forester Kit: Forest Fire Prevention and Filmstrip - Our Wonderful Woodlands FS Wisconsin 53202 710 North Sixth Street, Milwaukee, Audio-Visual: ST 7 ICE-RMC

Film-City Fire Fighters, Coronet Donald's Fire Survival Plan,

Walt Disney Your Friend the Forest, Save It or Destroy It, color, 6 min. EBF BAVI "Johnny the Firemar" 114-1R SVE Fire, Gateway Filmstrip - Fun on Wheels ire Engines, Tompkins Fire House Day, Film Association 'm No Fool With Fire, Walt Disney

Conimunity:

May have some pamphlets for childand the fire station and its func-Fire Chief: Explain fire safety ren to take home. demonstrate ways to put a fire out. tion to the children. Also may

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

- Murals: Forest Fires
- (matches, campfire, cigarette, etc.) . Draw what someone did that started the fire.
- their forest homes. Draw trees burning and wildlife fleeing from
- 3. Results of the fire:

blackened stumps and wildlife desperate to find a new home.

II. Physical Education
A. Game illustrates the plight of the animal searching for a home.

SQUIRRELS AND TREES

- 1. Players in groups of three with hands clasped together, forming a tree. One squirrel is placed in each tree. One odd squirrel is without a tree. chance to run. 2. The "it" person is the fox and chases the squirrel. The squirrel reaches safety when he takes a tree and the other squirrel must run. If he is caught, he changes part of the tree; therefore, letting everyone have a When a new squirrel enters a tree, rotate with a roles with the fox and becomes the catcher.
- φ. Rhyme:

Air is everywhere, Sky is up, (reach up)
Ground is down, (reach down) All around.

- C: front of a tree. The player who did not find a tree becomes "It". The trees are become the runners. Players run counterclockwise around circle. "It" claps his hands and runs in front of a tree. Other players must run in Form double circle. Players in front are trees. "It" stands in the center. He calls, "Fire in the forest, run, run". Fire in the Forest:

SUGGESTED RESOURCES | CO

Publications:

You and the World Around You Selsam

A Crack in the Pavement Ruth Howell

A Small Lab Keith

The Fresh Water and Man, Benzeger ICE-RMC

Audio-Visual:

Film - Why Plants Grow Where They Do, Coronet, 11 min. BAVI

Study Prints - Kit - 38 Desert Pictures ICE-RMC

McGraw-Hill Study Prints Animal and Plant Communities

Community:

Where Plants Live Desert Community Forest Community

CONTINUED OR ADDED LEARNING ACTIVITIES



CONCEL 1 140.	CONCEPT NO	Environmental:
	7 - Changes in Land Use	
!	SUBJECT	Integrated with:
	Social Studies	with:

			<u>E. S.</u>	E. F	A. Tit	le	<u> </u>	KU	JEC I	1-0	<u>- E</u>	<u> 59</u>	<u>-/(</u>	<u> </u>	35 — i	1		
	 Discussion Collection Planning 	Skills Used:				take away land for growing crops.	Object to the idea that we should	Affective:			from one place to another.	sporti	Name wave land is used in the	Name four types of early trans- portation.	1	BEHAVIORAL OBJECTIVES	Land Use?	
	8							*		·	-			A.	In-C	,		on In
would she use?	Pose Problems Such As: l. If Sue wanted to go some place very quickly, what means of transportation	car, bicycle, bus).	k. the differ of travel		b. Fast transportation en-	y do some om the c	:	b. Because of cars, planes,	a .	d. Trains Nodern transportation.	<pre>c. Sleds, ox carts, covered wagons, etc.</pre>	b. Riding on animals	ct	Discuss forms of transportation large larg	In-Class:	STUDENT-CENTERED LEA		fluence TOPIC/UNIT Transportation
<u>.</u>									Each child tell how the real thing is (or was) used.	 Pupils bring models or toys of different means of travel. 	=	Children can bring pictures	טוי טוע וופטוסטט פו נומאנוי	1. Children can bring pictures	0	LEARNING ACTIVITIES		portation

(continued)

Publications:

Audio-Visual:

FS Transportation 220-6

Children at Work and Play Around Churchill Lane, color, 16 min., BAVI the World, B&W, 20 min., BAVI, Transportation: Footpath to Air

The City, color, 11 min., BAVI Community: America, the Beautiful, color, Fishin' Fun in Wisconsin, color, 20 min., free from Conservation Div. Jnited World BAVI

City park to see facilities, guided by pop. than rural area. Trip to town or city to study why larger recent travel. Have parents show slides of Trip to motel or resort. recreation director.

Railroad museum

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

- If Dick wanted to go some place and see new things as he traveled, what means of transportation would he use?
- \cdot and necessitates changes in land use. Kids love drawing and Snowmobiles are a new form of transportation and recreation of snowmobiles. based on snowmobiles. First discuss the good and bad aspects painting snowmobiles in their pictures so plan a lesson
- D. Draw favorite form of transportation.
- Make a Transportation Bulletin Board. construct different kinds of vehicles. Draw and cut out or

Water	Land	Air
	cars	VV
boats	bikes	
	train	rockets

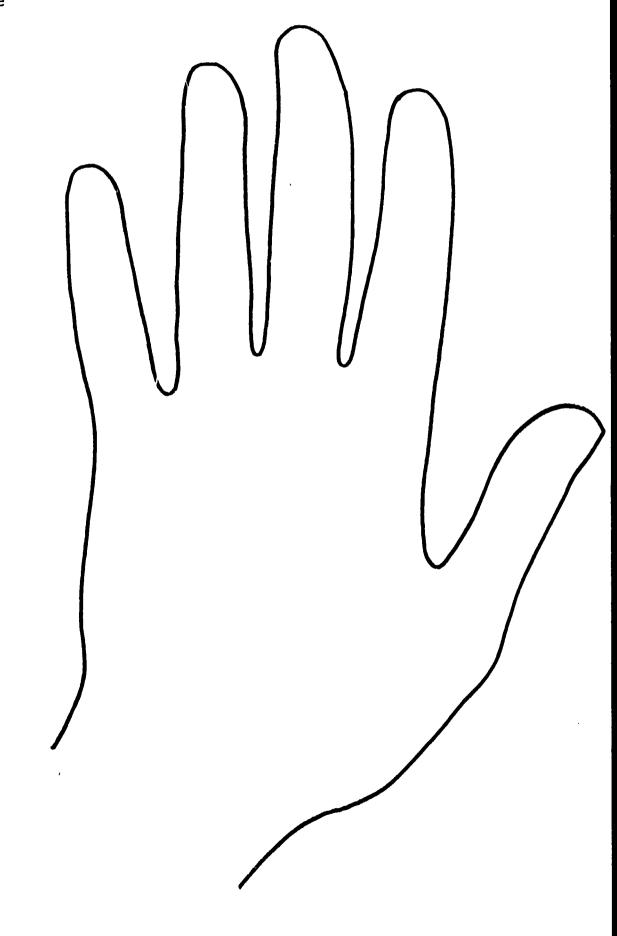
- . T Read the book, The Little House, by Virginia Burton. land use changed. Discuss how
- <u>.</u> years ago? What makes work easier now? Discuss - Why do people have more leisure time now than they did
- ŗ Which of the changes in land use came about as a result of changes in Have children name as many ways as they can that land is used. Teache transportation? lists on the board. After the list is made talk about the items.

BEST COPY AVAILABLE

MY FINGERS

My fingers are antennae Whatever they touch Bud, rose, apple Cellophane, crutch-They race the feel Into my brain Plant it there and Begin again. This is how I know Hot from cold Before I was even Two years old. This is how I can tell Though years away That elephant hide Feels leathery grey. My brain never loses A touch I bring. Frail of an eggshell Pull of a string Beat of a pulse That tells me life Thumps in a person But not in a knife. Signs that say: "Please do not touch," Disappoint me Very much.

Fingers Are Always Bringing Me News-Mary O'Neill





PROJECT 1-C-E 59-70-0135-4 A. Title III CONCEPT NO. Describe the child's environment of trees and flowers instead of Affective: each of his senses. as determined through the use of Cognitive: ORIENTATION Environmental: Skills Used: Demonstrate an appreciation of BEHAVIORAL OBJECTIVES picking them when making collecnature and willingness to preserve tions. it by taking or drawing pictures How Do Our Senses Help Us 8 - Value and Attitudes Environment: In-Class: Read Poem, "Abigail's Fingers" Me News by Mary O'Neill. "My fingers are almost surprise: One day Abigail said in Because of shoes. Bringing me news Of brick and log Out of pocketbooks. And tuck me into Smooth my hair, For me to hold. And what is too heavy Fingers are always the same as my eyes. from Fingers Are Always Bringing And that the softest thing A postal card. Un proper hooks, Is hot and cold, loes never know To Know Our Is fog." And help me write Put things into and My underwear. They tell me what They know the rough Is soft and hard They tell me what They lift my crayons, hey hang my clothes STUDENT-CENTERED LEARNING ACTIVITIES (continued) SUBJECT TOPIC/UNIT Integrated with: Using Our Senses Science Β. A. **Outside or Community:** Gc cutside - Feel and touch field guide "It's YourWorld", complete unit attached. Concept 2, page 21. Refer to Bug's-eye view in Use the "ICE" sersory development Take a trip to a wild spot. bugs, weeds, and bark. things like stones, grass,

Publications:

Using Our Senses ICE-RMC

110 UN

Audio-Visual

Films: color, 11 min., BAV1 Treasures of the Earth, color, ll min. BAVI et's Take a Walk in the Woods

Community:

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (continued)

- Read books about the senses
- Games involving the senses. Taken from: Learning about Nature through Games by V. Musselman

. Memory Test

such as a pine cone, acorn, pebble, burr, leaf, flowers, twig, many objects they can remember and name. person a quick look, then cover the tray. Then see how Variation: Use all vegetables. All fruits. All flowers berry, seedpod, etc. - things easy to find locally. in the order in which they were shown. Use simple objects different objects in a paper bag. Take them out one at a Instead of a bag, put the items on a tray. the bag. Then ask each youngster to list the objects he saw Test the visual memory of the boys and girls. Place ten time, hold them up for a few seconds, and replace them in Give each

Flight Watch

Do birds take off or land against the wind, or with the wind? Can a bird fly backwards? Why don't birds fall off other sounds in flight. soar like gliders flap the fly up and down in short curves parakeet and find out. fly very high Go with the youngsters to a quiet place, sit quietly, and watch the flight of birds. Try to see birds that: their perches when they're asleep? Look at a pet canary or fly very low flap their wings steadily make very short flights sing, whistle or make

Finger Memory

"come closer, friends!" Then they all come close, and try to Blindfold one player. The others move around it until he calls

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

CLASSROOM (continued)

•

Finger Memory

touch It without being caught. When someone is caught, It must identify him by touching his face and head. If It guesses correctly, that person becomes the New It. (This game is played all over the world, with different names, but with the same excitement of touch identification).

4. Which is more smooth?

A window pane or a stuffed chair?
A baby's face or its father's face?
A gravel walk or a bare waxed floor?
A handkerchief or a washcloth?
The tread on a tire of a car or the car windows?
A ripe tomato or a ripe strawberry?
A newspaper or a sheet of sandpaper?
New ice on a pond or ice frozen from slush in the street?
A board just sawed or this board after sanding?
A ieather coat or a burlap bag?
A turtle or an eel?
Your eyebrows or your lips?
Woolen mitts or cotton gloves?

5. Treasure Walks

Community

which he would like to remember. No touching, no collecting. stores it in his <u>mind</u>, not his pocket. At the end of the walk, everyone shares his treasure by telling about it. for his own special treasure - something interesting or beautiful Take the youngsters on a short walk or hike. Each one searches

Audio-Visual:

IT'S YOUR WORLD

A sensory development field experience for grades 1-3 based on:

Concept #2

All living systems interact among themselves and their environment forming an intricate unit called an ecox system.

and

Concept #12

All men depend on the proper functioning of Mother Earth. Each person must exercise custodianship of the earth for the benefit of mankind.

THE EARTH HAS MANY KINDS OF PLACES. THERE ARE WILD PLACES, FARM PLACES, AND CITY PLACES.

HAVE YOU EVER GONE TO A WILD PLACE? IF YOU WENT, DID
YOU FIND OUT WHAT MADE IT WILD? YOU CAN GO WITH YOUR FRIENDS TO A WILD
PLACE NEAR SCHOOL. USE YOUR EARS. USE YOUR NOSE. USE YOUR SKIN. USE
YOUR EYES. EVEN USE YOUR TONGUE, CAREFULLY. LET THE WILD PLACE TELL YOU
ABOUT ITSELF.

CAN YOU TELL OTHER PEOPLE ABOUT YOUR TRIP TO A WILD PLACE? CAN YOU TELL THEM WHY A WILD PLACE IS GOOD TO KEEP?

Supplies Reeded: Blindfolds, portable tape recorder, if available.

Place to Go: Any wild spot which is not regularly used by man.

Student Preparation:

Practice listening - smelling - feeling - seeing things in school which show that it is a city place.

Wear clothes for which your mother won't scold you if you sit on old logs and leaf piles and other good places to be on the field trip.



Feeling Time:

Sit in the wild place. Place a blindfold on. Then pass around small parts of the wild place one at a time. Feel them with your hand. Your teacher will find these things to pass around. Don't name the thing. Each student may say one thing about the part of the wild place. Listen as each person says what it feels like.

At the end of the feeling time, take the blindfolds off. Everyone may look at the things. What were the best things said about each thing?

Teacher note: Use soil, bark, moss, rotting stump, worms, stones, sow bugs, grass, flowers, and other good things.

Walk a little way in your wild place.

Listening Time:

Sit for 5 minutes in one place. Everyone be still. A blindfold may help you listen better. Listen to the sounds of the wild place. If there is a tape recorder, turn it on so that you can capture the sounds of your wild place to listen to later.

After you have listened, tell what might have made the sounds. Tell what the sounds were like with words.

Walk on a little farther.

<u>Smelling Time</u>:

With blindfolds on, smell the things your teacher finds for you in the wild place. Describe what each thing smells like. After passing everything around, take off the blindfolds and find out what each thing was. (You may be led to smell something which can't move to you).

Your teacher may give you some of these things which are safe to taste. Tell what each tastes like.

Time to walk a little more.



Seeing Time:

Look at the things in your new place. Tell about the things.

The colors of your wild place.

The shapes in your wild place.

The movement in your wild place.

The size of things in your wild place.

The weather today. The clouds. The wind.

Walk a little more.

Thinking Time

Stop and think about this wild place. Ask yourself:

Is it good to be here?

How do you feel about yourself today?

Would you like to come back?

If you were an animal, would you like to be here?

Or, if you were a plant?

What if somebody changed this place?

What if somebody was careless and left junk here?

How would you keep this place good?

Back in School

- Write a letter to your parents telling about your trip to a wild spot. (or to the principal, the administrator, the mayor, etc.)
- 2. Make a mural that contains the things you found as parts in your wild place.
- 3. Use some of the things of the wild place to make a collage.
- 4. Listen to the sounds of your wild place on tape and draw pictures of the sounds happening.



The unit is set up to take advantage of the point that primary level students learn by direct involvement sensory activities. For them, nature study activities should not stress factual details. The minds of primary level students are not yet ready for much sophistication at the factual and conceptual level. These students are not interested in the names of trees, flowers, bugs, or even why and how ecosystems interact.

These children are interested in exploring as many new things in their environment as they are able. They need direction in this exploration because their discriminating abilities need to be trained. They should come to know that there is a great variety in each part of the environment.

Teachers should obtain the services of parents and other volunteers for field use of this exercise. The volunteers should be trained briefly before departure to the field. Each volunteer and the teacher should be assigned no more than 6-8 students.

Each teacher or volunteer will lead her assigned group to an area enough removed from other groups at the field site so that students can concentrate. The leader should use several of the suggested exercises as time permits. Note that the "Thinking Time" exercise is very important and should be completed even if preceding exercises must be left out. Use a whistle to bring in the groups to a final collecting point.

Each child should have a blindfold assigned beforehand. Magic markers may be used for color coding the blindfolds to more easily assemble the different groups at the field site. After the first exercise the use of blindfolds may be discontinued if so desired.

Leaders should emphasize the ure of describing words by the students. Ask them to tell not what an object is, but how it feels, smells, looks, etc. Stress aesthetic qualities of the environment in the various activities. See that they find goodness in the natural system. Have fun! The children will.

Resources:

Environmental Awareness (develops the students' sensory abilities)
Centron Educational Films
5 filmstrips, 5 records
Project I-C-E KIT #16
For loan use, see address listed on first page.



·	E. S. E.	A. Title	111 - P	RO.	JECT	1-C	<u>-E</u>	59	-70	0-0	13	54	1	
Skills Used: 1. To be able to sort out or identify things that are beautiful or ugly.		farming or housing.	nat some area be saved for	Affective:			use.	oyment and recreati	Explain the importance of land	ses land for enjoyment.	Describe ways in which the child's	Cognitive:	BEHAVIORAL OBJECTIVES	ORIENTATION Why Should We Want T Land for Recreation?
C	в.			-				 ,	ra +* *******		Ď.	ņ		
Make bulletin board. Divide in half for ugly and beautiful things. Have children bring pictures of junk, rocks, leaves, branches, flowers. Have children decide on which side of bulletin board to put each object.	Paint or draw pictures of child-I ren having fun, and show where I the fun is.	6. How it makes you feel. 7. How time changes your environment.	they your tiful	ld we	use this space to build more; cities?	areas?	 What would happen if we did not take care of these 		(Picnicking, fishing, camping, the hoating colfing swimming	ying nature.	Show pictures of people who are	In-Class:	STUDENT-CENTERED LEAD	Save Some TOPIC/UNIT Rec
63									around their homes.	bulletin boards from areas	A. Students collect material for	Outside or Community:	LEARNING ACTIVITIES	Recreational Areas

Publications:

CONTINUED OR ADDED LEARNING ACTIVITIES

Audio-Visual:

Film - 380 Environmental
Enrichment - What You Can Do About It.
21 min., color, ICE

A Place To Play Film 540 ICE-RMC

Community:



Going nowhere.

Doing nothing.

Little piece of paper on the ground.

Sw

Flat. оор Little puff of wind.



,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			E .	S.	Ε.	Α.	Titl	e II	1 -	· PF	10.	JEC	T 1	-C-	-E	59	<u>-70</u>	0-01	35-	4	- 1 -			
	 Discussion Observation 	Skills Used:						type of clothing that a person	t weathe	Affective:				of clothing he wears.	C)	os wather		Using flannel board objects,	Cognitive:		REHAVIORAL OBJECTIVES	ORIENTATION How Do We Adjust to	CONCEPT NO. 9 - Management	Environmental:
E. Draw a picture of your if favorite season and tell is about it.	D. Draw a picture of clothes worn in summer and winter.	cool.		what kind of	C. Each child will tell trom			her	ready for winter: How I	ment - how does he get	do to manage his environ-	2. Teacher leads a discus-	ny we need	and also tell now they	kind of clothes to wear	cold, rainy, etc. outside. I	by pretenc	I. Science A. Teacher set stage for dis-	In-Class:		STUDENT-CENTERED LEAF	Different Weather? TOPIC/UNIT Seasons	SUBJECT	Integrated with:
66/ 67										story.	vation. Take a picture with your	a chart story about your obser-	the school grounds. Watch this area during each season. Make		ing.	₹.	there is. Observe what kind of	Each child should be prepared		Outside or Community.	LEARNING ACTIVITIES	ins	ICE - Physical Education	

Publications:

Books from library on seasons and clothing.

Audio-Visual

Pictures of the seasons
Pictures of different clothing
Films on different seasons
Filmstrips - SVE
Learning About the Seasons
F445 - \$22.50
The Seasons 853 \$20.00
Seasons Adventures 853 \$20.00

Films
Children in Autumn, color, ll min.
(EBF) BAVI 0282 \$4.75
Children in Winter, color, ll min.
(EBF) Community: BAVI 4347 \$4.00
(EBF) Community: BAVI 4347

CONTINUED OR ADDED LEARNING ACTIVITIES

I. F. FOUR SEASONS

CLASSROOM (Continued)

Springtime is a green time
When seedlings start their growing
Summertime's a rainbow time
When many blooms are blooming
Autumntime's a brown time
When seeds are ripe for sowing
But wintertime's a white time
It is the flowers' night time
When stars of frost are glowing.

THIS I KNOW

Summer, winter, spring or fall I am happy with them all, Every morning, noon or night Each one, has its own delight. Sun or rain or cloudy day Time for school or time for play. Life is happy this I know Just because I make it so.

SEASONS

Summer, winter, spring, and fall How we love them, one and all. Each one brings us lots of fun Rain and snow and nice warm sun.

II. Physical Education A. Game: MR. SUN

One player is Mr. Sun. All other players stand in a straight line on one goal. In unison, players call, "Mr. Sun, Mr. `un, will you chase us when we run?" Mr. Sun replies, "Yes, will, if

(Continued)

Publications:

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

II. A.

you're wearing " " (he calls a color such as red, green, etc.) All players wearing that color run to opposite goal and Mr. Sun tries to tag them. Any player he catches is out of the game. He has three chances, then calls everyone over.

AUDIO-VISUAL (Continued)

Spring Is An Adventure, color, 10 min. Coronet BAVI 3450 \$4.50 Summer Is An Adventure, color, 10 min., Coronet BAVI 4089 \$4.00 Animal Predators and the Balance of Nature, color, 11 min. Journal BAVI 4706 \$4.00 \$4,50 \$4.00

Audio-Visual:

Game from ICE-RMC S64 Man in His Environment

Integrated with:

Publications:

Peoria, Illinois uept. AB2C Caterpillar Tractor Company Free Material: 100 N. E. Adams Street

225 Bush Street Standard Oil Company of California San Francisco, California Public Relations Department

Audio-Visual:

Junk Dump - ICE-RMC
Lassies Litter Bit, color, 28.min.
Litterbug, Avis Films P. O. Box 643
Burbank, California

Harper & Brothers Publishing, New York Dear Garbage Man by Gene Zron

Community:

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

- you sing the words: A rig-a-jig, jig, and away we go, away we go, away we go, Hi ho, Hi ho, Hi ho, Ask the children to show by their actions, how they feel about each thing you sing about. Teacher sing the verses while the Buffalo Gals. Have the children skip around in a circle while children dramatize. Teach them the chorus of the song: Rig-a-Jig, to the tune of
- Alternate Class Activity.
- Verses for song, "Rig-a-Jig" As I went walking down the street, down the street, down the street,
- A beautiful flower I did see Hi-ho, Hi-ho, Hi-ho
- As I want walking down the street...An ugly old tin can I did see Hi-ho, Hi-ho, Hi-ho
- As I went walking...A pretty green fir tree I did see -Hi-ho, Hi-ho, Hi-ho
- see Hi-ho, Hi-ho, Hi-ho As I went walking...An ugly old tree stump I did
- see Hi-ho, Hi-ho, Hi-ho As I went walking... Some clean sparkling water I did
- ġ As I went walking... A polluted river I did see -Hi-ho, Hi-ho, Hi-ho.

object of each thing. This could be varied by having one child hold a picture or

Poem from MISCELLANEOUS - ICE

The earth is a great big ball. (Make a huge circle)

It isn't flat at all.

(Hold palms flat together)

It spins round and round just like a top. (Spinning motion with forefinger)

I'm sure it will never stop.

Oh, Sahra, Cynthia Sylvia Stout Would not take the garbage out, She'd wash the dishes and scrub the pans Cook the yams and spice the hams, And though her parents would scream and shout, She simply would not take the garbage out.

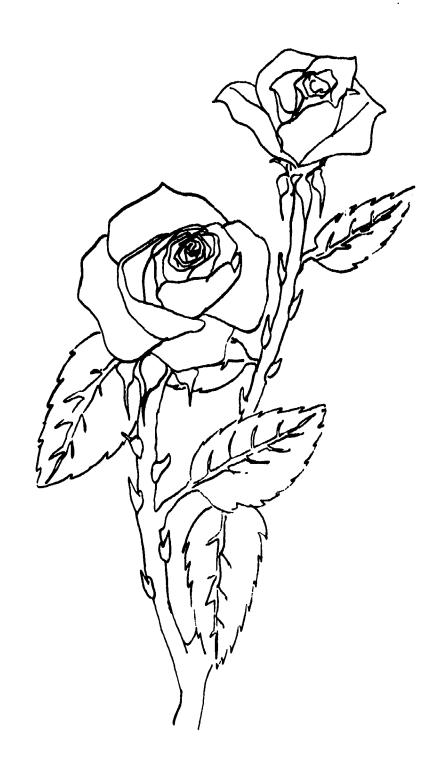
And so it piled up to the ceiling: Coffee ground, potato peelings, Brown bananas and rotten peas, Chunks of sour cottage cheese. It filled the can, it covered the floor, It cracked the windows and blocked the door. With bacon rinds and chicken bones, Drippy ends of ice cream cones, Prune pits, peach pits, orange peel, Gloppy glumps of cold oatmeal. Pizza crusts and withered greens, Soggy beans, and tangerines, Crusts of black-burned buttered toast, Grisly bits of beefy roast. The garbage rolled on down the halls It raised the roof, it broke the walls, I mean, greasy napkins, cookie crumbs. Blobs of gooey bubble gum, Cellophane from old bologna, Rubbery, blubbery macaroni, Peanut butter, cake and dry Curdled milk, and crusts of pie, Rotting melons, dried-up mustard. Eggshells mixed with lemon custard, Cold French fries and rancid meat, Yellowed lumps of Cream of Wheat.

At last the garbage reached so high That finally it touched the sky, And none of her friends would come to play, And all the neighbors moved away; And finally, Sahra Cynthia Stout Said, "Okay, I'll take the garbage out!"

But then, of crurse, it was too late,
The garbage reached across the state,
From New York to the Golden Gate;
And there in the garbage she did hate
Poor Sahra met an awful fate
That I cannot right now relate
Because the hour is much too late
But children, remember Sahra Stout,
And always take the garbage out.



BEST COPY AVAILABLE



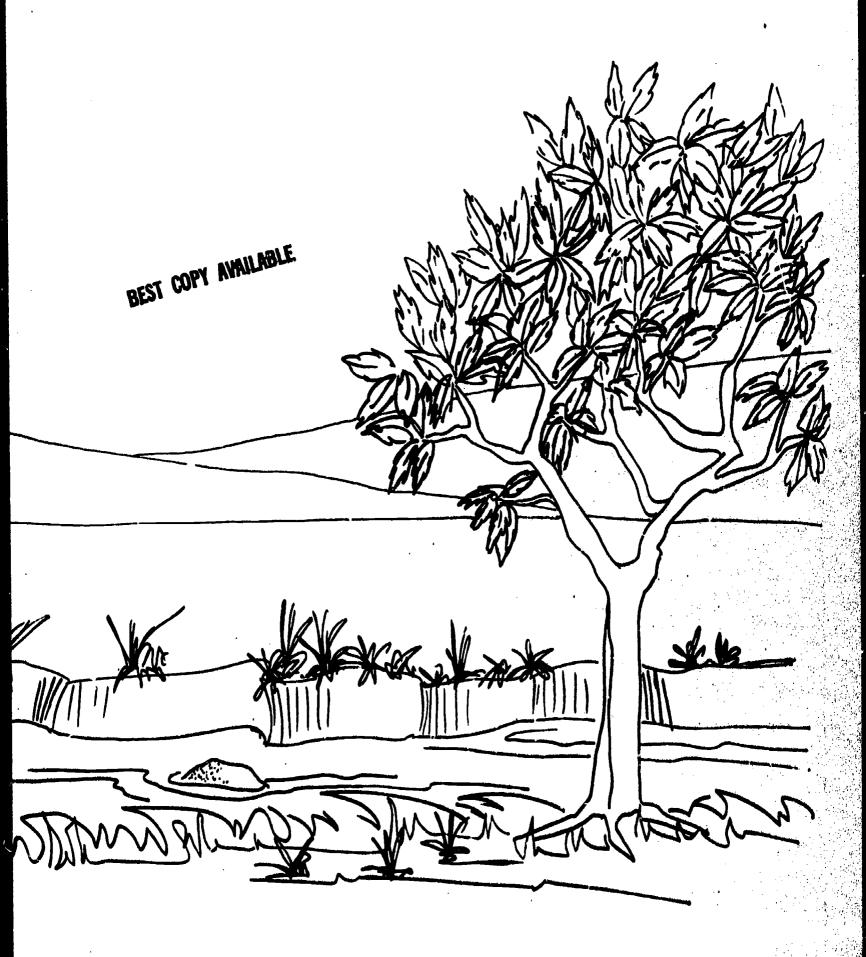




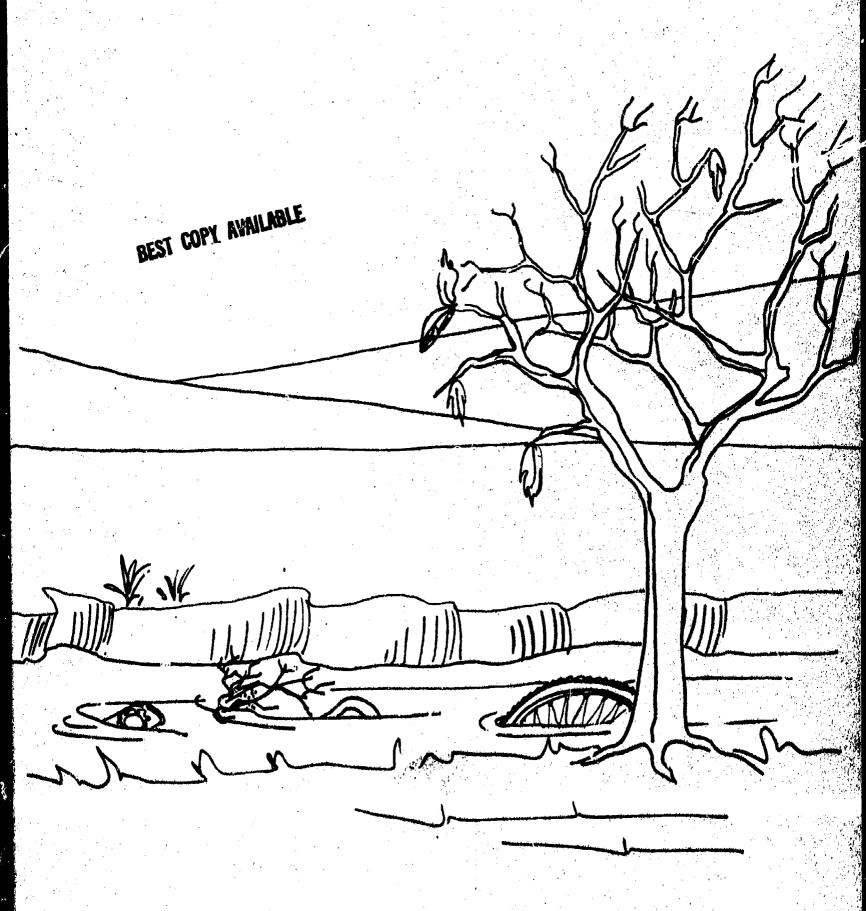
BEST COPY AVAILABLE







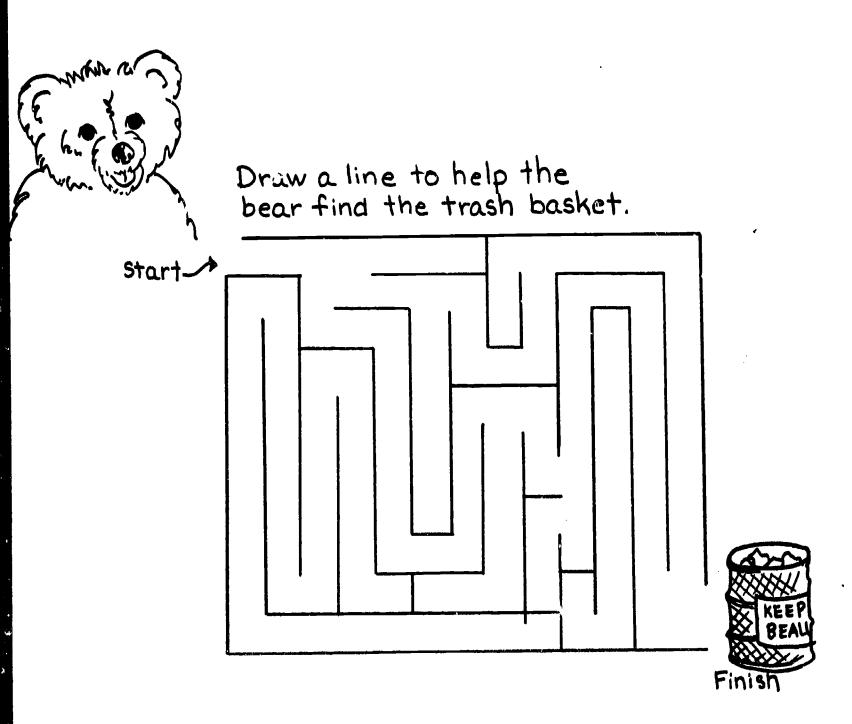






IS This The Warian Hunter Words and music by Marian Hunter

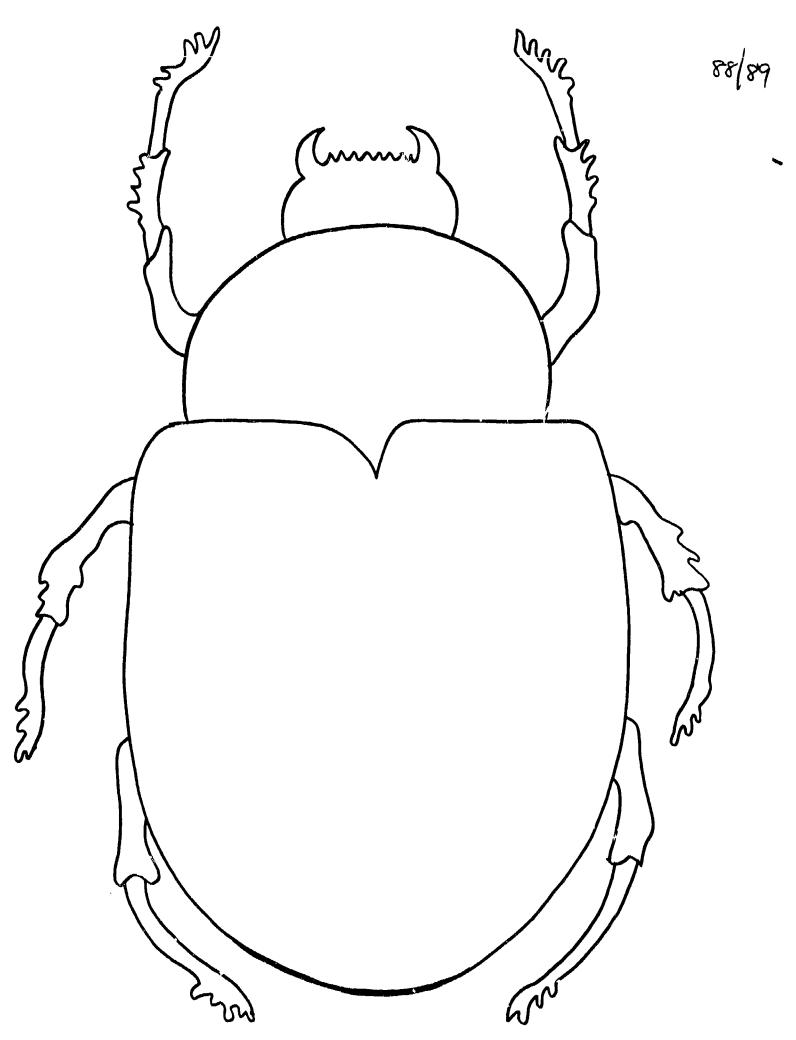






BEST COPY AVAILABLE





Enlarge and use for a litterbug bulletin board



Publications:

Books:

The Little House, Virginia Lee Bates, Houghton Mifflin, 1970 Miguel's Mountain, Bill Binzen, Coward-McCann

Audio-Visual:

Film: Dairy Farm, 2nd ed., color, 14 min., Coronet, BAVI
Film from ICE: 390 Cry of the Marsh, 12 min., color
FS Famous Elf Books, Tubby Turtle A 124 SVE

Community:

Agriculture teacher
Agriculture teacher
Housing development area
Factory
F ghway construction

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

a. MY TURTLE

This is my turtle.

(Make fist, extend thumb)

He lives in a shell.

(Hide thumb in fist)

He likes his home very well.

He pokes his head out when he wants to eat.

(Extend thumb)

And pulls it back in when he wants to sleep.

(Hide thumb in fist)

	E. S. E. A. 1 itle III - PRO	JECT I-C-E 59-70-013	5-4	*
Skills Used: 1. Outdoor living 2. Locomotor skills 3. Creative dramatics	Affective: Participate in an imaginary hiking experience which stresses safety and conservation as they mimic hiking movements.	Describe safety precautions to be used by campers and hikers for: a. Safety of the person b. Safety of the environment	BEHAVIORAL OBJECTIVES Cognitive:	Environmental: CONCEPT NO. 11 - Individual Acts ORIENTATION
(wa ntir	all our material: roll our packs in neat bundle in t a. Put down you b. Arrange your c. Put the rest things in. d. Roll the pac it up. Off we go(Imi ing through the child in his own a rock, jump a c	A. Stressing safety and conservation, the teacher can lead the children to imagine themselves going on a hike to enjoy nature. Then she can direct them in this problem: 1. Let's pretend that we are going on a hike. What are some things we need to take with us? 2. Now that we have gathered	In-Class: STUDENT - CENTERED LEA	ntegrated with: SUBJECT Lan FOPIC/UNIT
93	fire safety.	A. Have a boy scout or scout master speak on safety in the woods. 1. Safety for the camper or hiker. 2. Safety for the natural environment - how to preserve it and respect for private property. B. Have a forest ranger speak about	EARNING ACTIVITIES Outside or Community:	Art

Publications:

Burgess Pub. Co., 1962, p. 105 Webelos Stout Book, Boy Scouts of America School Children Through Physica Dauer, Victor, Fitness for Elementary

Thomas Y. Crowell Co., New York Michael Foreman Dinosaurs and All That Rubbish,

Benjamin Elkin, E. M. Hale & Co. The Loudest Noise in the World

Audio-Visual:

Community:

Forest Ranger

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

- Make blazes so we can find our way back.
- 7.
- Pick a good spot for the tent and put the tent up. Let's go find some firewood for a campfire. Will we chop down a tree? Why not? Why do we put stones around it? Put out campfire.
- 9 Clear out a spot for the fire, carry stones to put around it, light the fire, cook your supper on it.
- 10. so wild animals don't come too close. Watch where you walk, be careful not to step on small Eat your supper, be careful how you dispose of wastes,
- plants.

up and care for the area. Follow with a discussion of how each one must pick

- While hiking
- While camping
- **B** Read the book "Dinosaurs and All That Rubbish" enjoyed and cared for. Discuss the fact that the earth belongs to everyone to be

	E. S. E. A. Title	III - PRO)JEC1	I-C-E	59-70-0135	_1				
Skills Used: 1. Discussion 2. Demonstration	Make suggestions of ways that he could assist in the care of public property, such as parks, to preserve its beauty for others to enjoy.	Affective: Show respect for personal and public property by assisting in taking care of the property.			Explain the importance of taking care of personal and school property, including results if the property isn't cared for properly.	1	BEHAVIORAL OBJECTIVES	ORIENTATION Why Should We Take Good That Belong to Us and O	CONCEPT NO. 11 - Individual Acts	Environmental:
			1. Who should take care of this property?	and toys. Discuss why we should of public grounds and	A. Have the children tell about times when school property should have had better care. B. Discuss with children the care of their desks and books. C. Discuss care of their clothes	In-Class:	STUDENT-CENTERED LEA	od Care of Things TOPIC/UNIT ROTHERS?	SUBJECT Social	Integrated with:
95			nice?	B. Walk around the school yard. Think what would happen if no one cared for this area. How can you help keep it looking	Tour the school. that should have Tell what you co better.	Outside or Community:	EARNING ACTIVITIES	for	al Studies	

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Audio-Visual:

Filmstrip

Getting Along in School Series: Taking Care of Things, Coronet Films

Community:



9	
ERIC Full Text Provided by ERIC	

Skills Used:

As we march along.

(Continued)

And so we are all together

I'm with you and you're

with me

Publications:

Audio-Visual:

Ecology Folk Songs, Grades 4-H.S. Album K 9000 - 1 -12" 33 1/3 rpm Record, guide (Cassette, \$6.95)

Rope Skipping, Ball Bouncing Vocational Activities, Inc. Honor Your Partner Albums Freeport, New York

Community:

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

Ditties
We are marching for Ecology, Ecology, Ecology
We are marching for Ecology, Ecology, Hurrah!

Just practice with the syllables, etc. P-O-L-L-U-T-I-O-N (Tune of Mary Had a Little Lamb) Pollution is a dirty word, dirty word, dirty word, But it's not hard to spell;

Until you know it well.

Pol - lu - and then t i o n.

Pollution, pollution --

Let's spell it once again.
P - 0 - L - L - U - T - I - 0 - N

E-C-0-L-0-G-Y

 V_{OU} can spell it if you try.

And then you'll make it work for you. You can understand it, too,

It isn't luck, it isn't fate It's just that all things must relate.
Weather, wildlife, water, woods When they balance, life is good.

see paper, I see trash,

I see someone's foolishness.

Fire, Fire, Fire alarm A spark fell into a farmer's yard, How many animals did it harm?

How many trees_did_it_burn_down?______ Campfire, campfire, burn so bright Campfire, campfire, gives us light Campfire, what a beautiful night Holy smoke! The campfire got away tonight

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications

CLASSROOM (Continued)

Fight, fight, fight, fight, Pollution. Tell me pollution is caused by man. Papers, bottles, tires and cans

JUMP ROPE (Individual Rope Skills)

- lurn rope forward
- Jump on toes of both feet
- Jump on right foot
- Jump on left foot
- Jump first on right fout, then on left
- Progress forward in a run
- <u>.</u> Progress forward in a skip

Audio-Visual:

- On the odd count, ordinary jump; on the even count cross hands in front of body making a loop through which the child jumps
- Hold one leg high, knee straight, toes pointed,
- Same as 1-h but throw raised leg forward on one jump and jump on other foot
- Jump with feet spread sideward backward on the next
- Jump with feet spread sideward and backward
- onto other foot. Rocker, leap forward on one foot, leap hackward
- Double jump forward-two jumps to each turn of the rope.
- Jump and land with the feet crossed, alternating the position of feet on each jump
- Click heels together while in air
- Turn rope twice while in air

Community:

- Move sideward right or left on each jump
- lurn rope backward doing the above
- ω \sim Click handles of rope together or clap hands each time rope is jumped.
- Cradling-swing the rope forward under the feet.
- or floor and jump the rope. bend position, and swing rope in a circular path near ground Grasp both ends of rope in one hand, assume deep knee-

(Continued)

Community:	Audio-Visua:	Publications:	SUGGESTED RESOURCES	
	5. a. Jump with both feet b. Jump with right or left foot c. Jump, alternating hands, or direction c. Jump, alternating hands, or direction 6. To change direction of rope or to permit jumper to make a different type of jump, use the slip-student swings rope to one side maintaining same jumping rhythm. Individual RopePartners Jumping 1. No. 1 turns rope forward, No. 2 runs in, faces his partner, and both jump. 2. Same as one but done backwards. 3. No. 1 turns rope forward, No. 2 runs in, turns his back to partner. 4. No. 1 turns rope forward, No. 2 runs in behind partner. 5. Partners stand side by side, inside hands joined, outside hands turning the ropes. 6. No. 1 turns rope forward, No. 2 runs in faces No. 1 and executes quarter, half and full turns on each jump.	CLASSROOM (Continued)	CONTINUED OR ADDED LEARNING ACTIVITIES	



CONCEPT NO.

12 - Stewardship

around them.

List ways to beautify the land

and destruction to those resources.

Cognitive:

State that negligence in caring

for resources results in damage

Integrated with:

Social Studies

BEHAVIORAL OBJECTIVES ORIENTATION

land pretty: What things can we do to make our

TOPIC/UNIT

in-Class: STUDENT-CENTERED LEARNING ACTIVITIES

would improve its appear-Ask children how they Show pictures of a shabby ance. farm or house or factory.

grass, grass will die, and a walk. If everyone walks on Discuss reasons for a sidepath will be worn.

Β.

Chorus: To tune of the Mulberry Bush,

<u>.</u>

PROJECT

Affective:

others by his courteous behavior Show his regard for rights of

toward others in the classroom.

 Here we go round a a beautiful tree, So early in the morning. beautiful tree, Here we go cound a a beautiful tree, beautiful tree,

share in keeping the land clean

Indicate pride in doing his

and litter-free by trying to

have his area the cleanest area.

This is the way we... pick up twigs (3x)

d. cut the grass (3x) rake the lawn (3x)

Skills Used

Drawing conclusions

water the plants (3x)trim the hedge (3x)

morning. ... so early in the

(Cuntinued)

Respecting the Rights of Others

Outside or Community:

Take a walk to look for "eye-

sores". Look at junk yard - so mantle and recycle glass and metal). A junk yard and metal). A junk yard is not really pollution, but What can be done? (Disdispleasing to the eye. use trees as a visual shield. is displeasing to the eye, thus the owner should screen it from view by a tall fence,

water. nobody can swim or fish or boat in it. Beauty is destroyed.) Show factory smoke stacks waste products into water. fish die; algae on top of discolored water, plants and polluting air and dumping it difficult to breathe; (Results: dirty air making

ω. Walks. Conduct litterbug clean-up area. home, school, etc. Litterpugging makes picnic look displeasing to the eye.

a lawn every day? was made. Could you and your Visit a farm. Show cow path in happen if all of us walked across friends make a path? What would field. Talk about how the path

Publications:

Dr. Seuss

Audio-Visual:

Teacher should take own slides.
shabby farms or houses
attractive homes
factories at work
junk yards
incinerators
picnic areas
paths worn by walking

Community:

Take slides of community: junk yard dump a~ea

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

- Discussion a. Cleaning up can be fun as well as profitable.
- D. Variation of Musical Chairs
- Start with same number of chairs as students. Teacher may label 2 or 3 chairs with signs as:
 No Fishing, Private Property, No Trespassing,
 No Dumping, Do Not Tease Dog, etc. Teacher may switch signs or students may wish to suggest signs.
- Students will walk, skip, jump or a variation of steps, around the chairs. When music steps, students who sit on labeled chairs are out of game.
- Discussion should follow from motivation of the above activity. Stress respect for private property.

	E. S. E. A. Title III -	PROJECT I-C-E 59-70-01	35-4		
Skills Used: 1. Following directions 2. Listening 3. Discussion		Explain why it is not fun to be with some people. Include manners and attitudes. Identify manners or lack of manners that indicate why a child is included, or excluded, in the activities on the playground. Affective:	Cognitive:	What Happens if Noise As He Want	Environmental: CONCEPT NO. 12 - Stewardship
wiped out. 4. Discussion: a. Why couldn't we hear i "George" playing his melody! any longer? b. What does this mean to us when we play our instruments in a class? (cont'd.)	ments as needed to the class. 1. Instruct one student to play something very simple. 2. Instruct others to add in, playing their own pattern, as the teacher directs one by one. 3. Instruct a majority of the class to raise their hands as soon as the 1st and as soon as the 1st and a soon as the 1st and a soon as the 1st and a soon as the s	Talk about good manner 1. at home 2. at school 3. at play Read parts of Manners Fun T. Discuss reasons whot fun to work or with some people. Use rhythm instruments what happens if many p play their own melody same time.	In-Class: Outside or Community:	ch TOPIC/UNIT Respecting	Integrated with: SUBJECT Social S_Jdies

Publications:

Books from library on manners.

Manners for Moppets, Betty Betz,
Grosset and Dunlap, 1962
What Do You Do Dear? Sesyle Joslin
Young Scott, 1961
Manners Can Be Fun, Munro Leaf,
Stokes, 1937

Audio-Visual:

16 mm Film - Noise Presentation free from: Modern Talking Picture Service 160 East Grand Avenue Chicago, Illinois 60611

Record - <u>Sounds I Can Hear</u>, Scott, Foresman

. T

Community:

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

D. Divide the class in half. Half of the group taps on a surface. You can reduce the number tapping. Discuss what happens to the sound as fewer persons tap.

Then add more tappers from the non-participating half. Discuss what happens to the volume of sound.

E. POEM:

Rat-a-tat-tat

Rat-a-tat-tat!
What bird is that?
Rat-a-tat-tat!
It woke up the cat!

It pecks and pecks And pecks all day. I wish that bird Would fly away.

Discuss the effects of noise in the school.

How do you feel when there is a lot of noise?

Is it right for you to be as noisy as you want?

I-C-E Resource Center

The following films, filmstrips and kits may be used as a general resource for any Ecology units or episodes - or as an introduction or conclusion to a problem. Although some of these are listed for higher grades, kindergarcen children will benefit from them.

105

FILMS

- #380- Environmental Enrichment What You Can Do About It 21 min. color grades K-8.
- #390 Cry of the Marsh 12 min. color grades K-12.
- #400 Boomsville 10 min. color grades 2-12 Animated
- #220 A World Is Born Walt Disney 20 min. color Grds. k-8.
- * #310 Junkdump - ACI Films - 20 min. - color - grades 5-12
- #320 The Steam ACI Films 15 min. color grades 5-10
- #330 A Slice of Bread Sterling Educational Films 16 min. color grades 2-8.
- #210 Nature's Half Acre Walt Disney Educational Materials, 33 min. color grades 1-8.

FILMSTRIPS

- St 5 Animal World Series McGraw-Hill Text Films 8 color filmstrips grades K-4.
- St 7 <u>Our Wonderful Woodlands</u> American Forest Institute filmstrip, cassette, 20 comic booklets grades K-4.
- St 8 <u>Animals of the Forest Series</u> McGraw-Hill Text Films 5 filmstrips grades K-3.
- St 12 <u>Man and His Earth</u> 8 filmstrips 8 guides, 1 master guide, student activity sheets grades Sp. Ed. Primary

KITS

- Kit 10 Environmental Action No Time to Waste Continental Can Co. filmstrip record card game teachers' manual student handbook grades K-6.
- Kit 16 Environmental Awareness Centron Educational Films 5 filmstrips and 5 records grades K-6.
- *260 Garbage King Screen Productions 10 min. color, grades 4-12.



KITS (continued)

- Kit 19 <u>Introducing Animals Series</u> Mc-Graw-Hill Study Prints 5 sets of color posters grades K-6
 - Kit 21 <u>Eco-l.ab</u>: A Study of Rural & Urban Ecology Benefic Press 208 Activity Cards Grades K-6.
 - Kit 35 Save the Earth A Nature Conservation Kit 2 filmstrips 1 record teachers' manual student handbooks and g. ades K-2.
 - Kit 37 <u>The Variety-of Living Things</u> 6 sets of study prints grades K-6
 - Kit 38 Animal and Plant Communities 5 sets of study prints grades K-6.
 - Kit 40 Environmental Education Activity Cards (air-water-land-life) 288 activity cards 1 pamphlet grades K-12.
 - Kit 42 The Only World We Have (air-water-energy supply population-living and green-space-natural resources and food) 6 cassettes spirit masters teachers' guide grades K-6.

